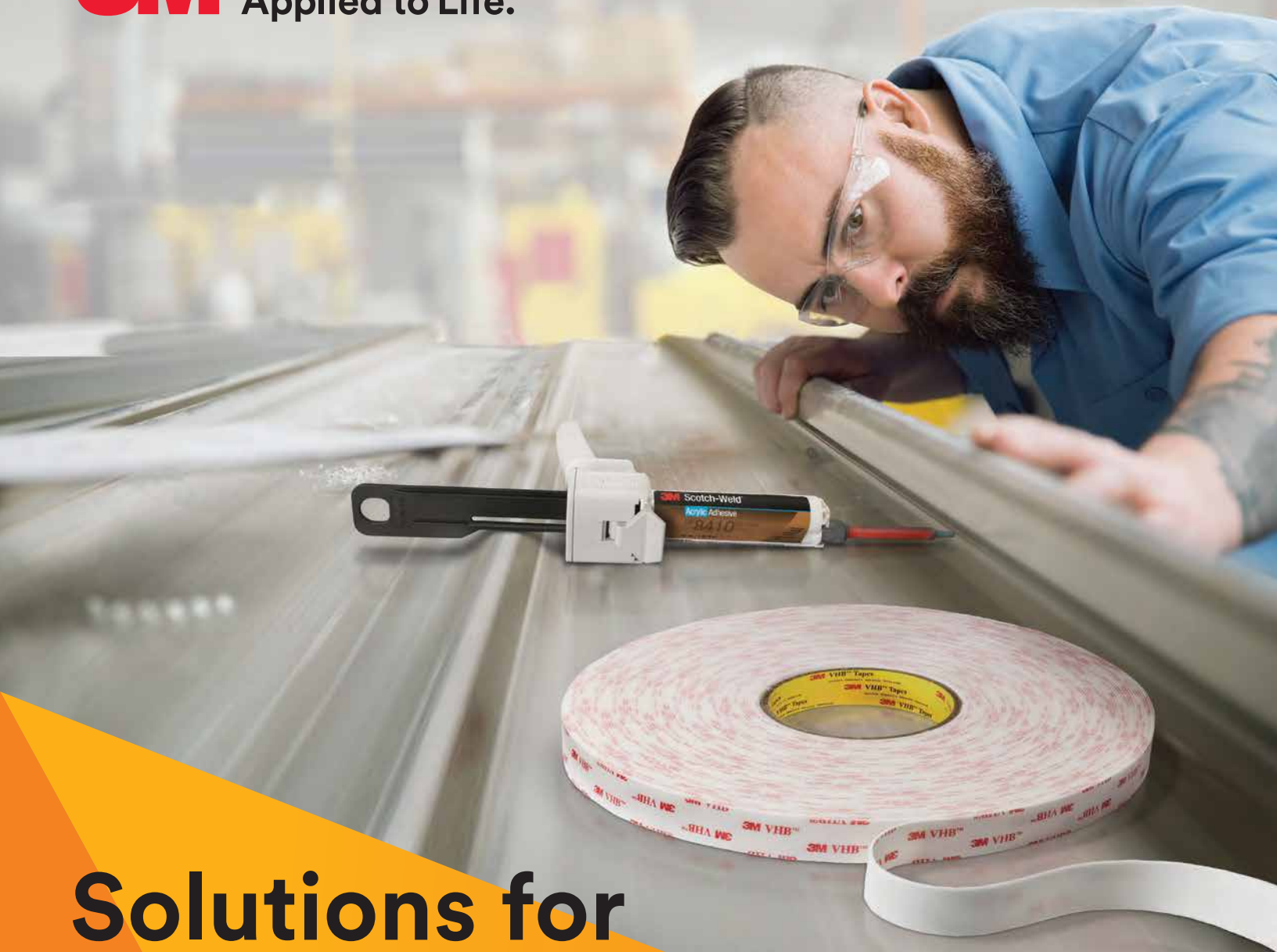


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Applied to Life.™



Solutions for your assembly challenges.

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3M Industrial Adhesives and Tapes
Design & Production Guide | October 2017



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Do it your way.

- 3M systems are built around *your* manufacturing processes, not the other way around.
- Whether it's structural or non-structural adhesives, bonding tapes or reclosable fasteners, 3M solutions ensure speed, convenience and ease of use.



88,667
employees

Do it together.

- No matter what you need to bond, you can count on 3M's expertise, technologies and 88,667 dedicated employees to help you find solutions.
- From wood, metal, foil, insulation, foam, fabric and panel lamination to specialty high performance and multipurpose materials of every kind, solutions are one call away.



100,000
patents

Do it boldly.

- 3M has been a world leader in bonding technology for decades and we have the patents to prove it.
- Quality, consistency and reliability—the attributes you look for in a bonding solution—help drive our quest for new innovations.



1
chance to do it right

Do it responsibly.

- Sustainability is a natural extension
- We developed the first water-based adhesive — more than 40 years ago.
- We have a wide selection of Low VOC products that contribute to LEED® credits and a



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3M™ Adhesives and Tapes for design, assembly and production.

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What can 3M™ Adhesives and Tapes do for your product and process?

Build strong, durable products:

- From repositionable to permanent, 3M has an adhesive or tape that can be readily matched to the substrate and stress characteristics needed in the joint.

Improve appearance and aesthetics:

- 3M adhesives and tapes are generally hidden between the bonded substrates, offering nearly invisible fastening.
- Surfaces stay smooth and clean for a more attractive appearance and less surface refinishing.

Lower production and material costs:

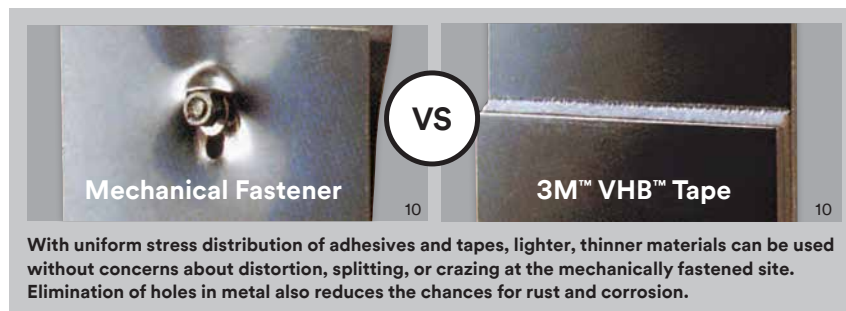
- Reduce process steps such as weld grinding and sealing individual penetrations from screws, nuts and bolts.
- Use thinner, lighter or less expensive materials that cannot be welded or fastened traditionally.
- Potentially lower capital investment. Many adhesives and tapes do not require major capital to use.
- Manage labor costs. Many tape and adhesive technologies require little operator training.

Build products with a continuous bond line:

- Adhesives and tapes uniformly distribute stress along the entire joint. Nuts, bolts and other fasteners concentrate stress at a point which can decrease physical properties of the substrates being assembled.
- Bond and seal simultaneously. Many 3M adhesives and tapes will provide a strong bond, but are also an effective seal against dirt, dust, water and other environmental conditions.
- Good fatigue resistance. If your parts are subject to vibration or other movement, the viscoelastic nature of 3M adhesives and tapes will impart flexibility to a joint or bonded area.

Wider material selection for assemblies:

- Lighter and thinner materials can be used. Welding and fastening weaken substrates and require a minimum thickness to retain integrity.
- Bond dissimilar materials. 3M adhesives and tapes bond to a wide range of substrates from metals, wood, glass, plastics and ceramics. This includes “hard to bond,” low surface energy materials.
- Prevent galvanic corrosion. 3M adhesives and tapes can provide a film barrier to reduce or prevent bimetallic corrosion that can occur when joining to different types of metals.



3M™ Adhesives and Tapes Product Family

 8	■ 3M™ VHB™ Tapes	 14	■ 3M™ Contact and Spray Adhesives	 19	■ 3M™ Scotch-Weld™ Gasket Makers
 11	■ 3M™ Scotch-Weld™ Structural Adhesives	 15	■ 3M™ Double Coated Tapes	 20	■ 3M™ Scotch-Weld™ Instant Adhesives
 12	■ 3M™ Adhesive Sealants	 16	■ 3M™ Extreme Sealing Tapes	 21	■ 3M™ Scotch-Weld™ PUR Adhesives
 13	■ 3M™ Adhesive Transfer Tapes	 17	■ 3M™ Hot Melt Adhesives	 22	■ 3M™ Scotch-Weld™ Retaining Compound
		 18	■ 3M™ Reclosable Fasteners	 23	■ 3M™ Scotch-Weld™ Threadlockers

Considerations when selecting 3M™ Adhesives and Tapes for your product and process.



Assembly

What type of assembly is required? (Refer to 7 common assembly types in the right hand column.)

What are the overall performance needs of the assembly (flexibility, high peel strength, etc.)?



Substrate

What are the materials that are being bonded together? (Refer to the substrate selectors for each assembly type on pages 4–15.)

Consider the surface condition texture of each material.



Process

What is the current assembly and manufacturing process?

Does the solution need to fit into the current process/equipment or can the process/equipment change?

What are the various process steps and how quickly will the assembly be moved to each step?

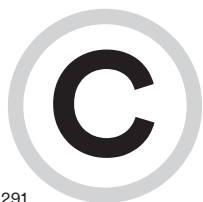
At any time, might the assembly bond need to be repositioned? If so, why and when?



End-Use

How and where is the final product used?

Will the assembly be exposed to harsh environmental conditions (UV, chemicals, high humidity, very high or low temperatures, etc.)?



Cost

Where can improvements be made in the assembly process (labor, reduction of process steps, materials, workflow, etc.)?

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Assembly Solutions are made up of these common applications:



**Panel to Frame/
Stiffener to Panel**
pg 4

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**Small Joint
Assembly**
pg 6

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**Large Surface
Lamination**
pg 8

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**Mounting and
Trim Attachment**
pg 10

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Gasket Attachment
pg 12

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Sealing
pg 14

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**Potting and
Encapsulating**
pg 14

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What are Panel to Frame Assemblies? What are Stiffener to Panel Assemblies?



Panels are used in multiple markets, such as transportation, metalworking and construction.

Panel to Frame: Decorative or load bearing panel that is applied to a rigid frame or support. **Examples include trailer panels, elevator walls and sign boxes.**

Stiffener to Panel: Stiffeners are applied to panels to give extra support and rigidity. **Examples include trailer wall panels, traffic signs and large metal enclosures.**

Possible Adhesive or Tape Requirements:

- Dead load holding strength
- Flexibility for dynamic loads and thermal expansion mismatch
- Fill a gap or variation in fit from end to end
- Provide a water seal

Best 3M Solutions for Panel to Frame/Stiffener to Panel Assemblies



■ **3M™ VHB™ Tapes** (pg 68–75)

These high-strength bonding tapes are a proven alternative to screws, rivets, welds and other mechanical fasteners. 3M™ VHB™ Tape offers instant strength, a high ultimate bond and seals simultaneously. 3M™ VHB™ Tape’s viscoelasticity allows relative movement of parts for thermal expansion/contraction. Best for flat to flat applications with a consistent bondline thickness.

■ **3M™ Scotch-Weld™ Structural Adhesives** (pg 18–36)

Acrylic, epoxy and urethane structural adhesives that hold over 1,000 psi in overlap shear strength. Best suited for thinner bondlines, irregular shapes and textured surfaces where load-bearing strength is needed. Provides the highest load-bearing strength and environmental resistance.

■ **3M™ Adhesive Sealants** (pg 47–51)

Acrylic, polyurethane, nitrile and hybrid one-component adhesive technologies with outstanding sealing properties. These products are capable of filling larger and irregular gaps including rough substrates. Highly flexible formulations allow for relative movement for thermal expansion/contraction.

■ **3M™ Reclosable Fasteners** (pg 92–95)

3M™ Dual Lock™ and 3M™ Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These products are ideal to allow access for servicing or replacement of a panel. Generally backed with 3M™ VHB™ Tape or other 3M adhesive technologies.

Performance Factors for Panel to Frame/Stiffener to Panel Assemblies

All 3M technologies in the table below are commonly used in panel applications. Use the table below as a relative comparison of product performance.

Good = + Better = ++ Best = +++

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Structural Adhesives	3M™ Adhesive Sealants	3M™ Reclosable Fasteners
Number of Steps to Apply and Ease of Application	+++	+++	++	++
Rate of Strength Build	+++	++	+	+++
Flexibility and Joint Expansion	+++	+	+++	+++
Holding Power	+	+++	++	+
Repair/Removal After Cure	+++	+	++	+++



Panel to Frame/Stiffener to Panel Assembly Solutions

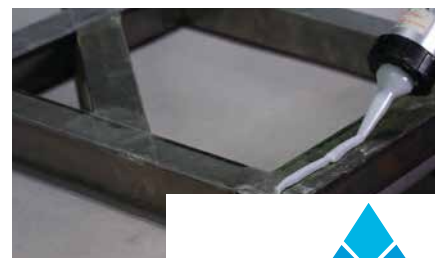
	Metals (Aluminum, Steel, Stainless, Galvanized)	Paints (Powder Coat, Painted Metal, Composite Panel)	Glass	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)
Metals	<ul style="list-style-type: none"> ■ 4941, RP45, 5952 ■ LSB60NS ■ *550FC + AC61 ■ SJ3550/51/52, SJ3571/72 	<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ LSB60NS ■ *550FC + AC61 ■ SJ3540/41/42, SJ3526N/27N 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ LSB60NS ■ *590, *560, *760 ■ SJ3560/61/62, SJ3571/72 	<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ LSB60NS ■ *560, *760 ■ SJ3550/51/52, SJ3571/72 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP8010 Blue ■ *560, *760 ■ SJ3540/41/42, SJ3526N/27N
		<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ DP8810NS ■ *550, *560, *760 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ LSB60NS ■ *590, *560, *760 	<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ DP8810NS ■ *560, *760 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP8010 Blue ■ *560, *760
Glass			<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP460 ■ *590 	<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ DP100 Plus Clear ■ *560, *760 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP8010 Blue ■ *560, *760
				<ul style="list-style-type: none"> ■ *4941, *RP45, 5952 ■ DP8405NS ■ *560, *760 	<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP8010 Blue ■ *560, *760
					<ul style="list-style-type: none"> ■ *4941, *RP45, *5952 ■ DP8010 Blue ■ *560, *760

Key

- 3M™ VHB™ Tapes
- 3M™ Scotch-Weld™ Structural Adhesives
- 3M™ Adhesive Sealants
- 3M™ Reclosable Fasteners

*Primers may also be required in some cases. See specific product pages for primer details.

For 3M™ VHB™ Tape applications in the Commercial Vehicle market, refer to page 72 for a selection of products.



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products.

What are Small Joint Assemblies?

Small joint assemblies exist in multiple markets, such as sporting goods, electronics, furniture, motors and electrical.



Small Joint: Small joints are typically irregularly shaped but only a few inches of overlap area. They may be insertion joints or overlap joints, or some combination. **Examples include sporting goods (e.g., golf club heads to shaft), plastic casings, lens mounting for instrumentation, mortise and tenon furniture joints, thread locking or shaft retailing, magnet bonding and jewelry making.**

Possible Adhesive or Tape Requirements:

- Low viscosity for tight fitting parts
- Vibration resistance
- Very high strength
- Bond dissimilar materials

Best 3M Solutions for Small Joint Assemblies



3M™ Scotch-Weld™ Structural Adhesives (pg 18–36)

Acrylic, epoxy and urethane structural adhesives that hold over 1000 psi in overlap shear strength. Best choice for highest strength, fatigue and environmental resistance especially for metal to metal bonds.



3M™ Scotch-Weld™ Instant Adhesives (pg 38–40)

One part solvent-free adhesive that reaches handling strength in 5–10 seconds. Best for small bondlines (<10cm²). Commonly used on rubbers and plastics. Very tight bondlines are achievable with near instant strength.



3M™ Hot Melt Adhesives (pg 47–51)

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



3M™ Scotch-Weld™ PUR Adhesives (pg 36–38)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.



3M™ Scotch-Weld™ Retaining Compounds (pg 42)

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.



3M™ Scotch-Weld™ Threadlockers (pg 42)

One-part anaerobic adhesives cure between metal surfaces. Permanent and removable grades are available.

Performance Factors for Small Joint Assemblies

All 3M technologies in the table below are commonly used in small joint applications.

Use the table below as a relative comparison of product performance.

Good = + Better = ++ Best = +++

Attribute	3M™ Scotch-Weld™ Structural Adhesives	3M™ Scotch-Weld™ Instant Adhesives	3M™ Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M™ Scotch-Weld™ Threadlockers
Shear and Peel Strength	+++	++	+	+++	++
Temperature and Solvent Resistance	+++	+	++	+++	++
Aesthetics	+	+++	++	++	++
Rate of Strength Build	+	+++	+++	++	++
Rework	+	++	++	+	



Small Joint Assembly Solutions

+	Metal (Unpainted)	Metal (Painted)	Glass, Ceramic, Stones	Rubber, Elastomers	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)	Wood
Metal (Unpainted)	<ul style="list-style-type: none"> ■ DP420NS ■ 3747, 3789 ■ RT09 ■ TL62 	<ul style="list-style-type: none"> ■ DP8805NS ■ 3747, 3764 	<ul style="list-style-type: none"> ■ DP420NS ■ 3747, 3789 	<ul style="list-style-type: none"> ■ 2216 	<ul style="list-style-type: none"> ■ DP8805NS ■ 3764, 3747 ■ TE040, EZ250150 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ 3748, 3764 ■ TE040, EZ250150 	<ul style="list-style-type: none"> ■ DP100 Plus ■ 3792 ■ EZ25150
		<ul style="list-style-type: none"> ■ DP8805NS ■ PR100 ■ 3747, 3764 	<ul style="list-style-type: none"> ■ DP100 Plus ■ PR100 ■ 3764, 3792 	<ul style="list-style-type: none"> ■ DP620NS ■ *PR100 	<ul style="list-style-type: none"> ■ DP8805NS ■ PR100 ■ 3748, 3764 ■ TE040, EZ250150 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 ■ TE040, EZ250150 	<ul style="list-style-type: none"> ■ DP620NS ■ S1100 ■ 3764, 3792 ■ EZ25150
			<ul style="list-style-type: none"> ■ DP100 Plus ■ PR100 ■ 3792 	<ul style="list-style-type: none"> ■ DP100 Plus ■ *PR100 	<ul style="list-style-type: none"> ■ DP100 Plus ■ PR100 ■ 3748, 3764 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 	<ul style="list-style-type: none"> ■ DP420NS ■ S1100 ■ 3792 ■ EZ250120, EZ250150
				<ul style="list-style-type: none"> ■ *PR100 	<ul style="list-style-type: none"> ■ DP620NS ■ *PR100 	<ul style="list-style-type: none"> ■ *PR100 	<ul style="list-style-type: none"> ■ DP604NS ■ *S1100
					<ul style="list-style-type: none"> ■ DP8405NS, DP8805NS ■ PR100 ■ 3748, 3764 ■ EZ250150 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 	<ul style="list-style-type: none"> ■ DP620NS ■ S1100 ■ 3764, 3792 ■ EZ250150
						<ul style="list-style-type: none"> ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 	<ul style="list-style-type: none"> ■ DP8010NS ■ *S1100 ■ 3764, 3792 ■ EZ250150
							<ul style="list-style-type: none"> ■ DP100 ■ S1100 ■ 3792 ■ EZ250120, EZ250060

Key

- 3M™ Scotch-Weld™ Structural Adhesives
- 3M™ Scotch-Weld™ Instant Adhesives
- 3M™ Hot Melt Adhesives
- 3M™ Scotch-Weld™ PUR Adhesives
- 3M™ Scotch-Weld™ Retaining Compounds
- 3M™ Scotch-Weld™ Threadlockers

*Primers may also be required in some cases. See specific product pages for primer details.



What are Large Surface Lamination Assemblies?



Large surface bonds and laminations exist in multiple markets, such as transportation, appliance, furniture and construction.

Large Surface Lamination: Two surfaces (substrates) of similar size, either rigid or flexible, are bonded or laminated together where a majority of the surface is covered by the adhesive or tape in order to create the bond. **Examples include high pressure laminate to tabletops, fabric to foam for furniture, veneers on wood and flexible transportation flooring.**

Possible Adhesive or Tape Requirements:

- Cover full surface
- Flexible when dry; not stiff
- Allow for positioning parts
- Bonds quickly/little or no fixturing

Best 3M Solutions for Large Surface Lamination Assemblies



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3M™ Scotch-Weld™ Structural Adhesives (pg 18–36)

Acrylic, epoxy and urethane structural adhesives that hold over 1,000 psi in overlap shear strength. Best suited for applications where high load-bearing strength is required.



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3M™ Contact and Spray Adhesives (pg 58–59)

Solvent and water based adhesives that can be sprayed, brushed or roll applied. Very fast and easy coverage of large areas including irregular and mildly textured shapes. Bonds the widest range of substrates.



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3M™ Hot Melt Adhesives (pg 47–51)

100% solid, low VOC thermoplastic resins that reach bond strength in seconds. Long open-time formulations can be spray applied. Bonds irregular shapes and textured surfaces.



21

3M™ Scotch-Weld™ PUR Adhesives (pg 36–38)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Long open-time formulations can be spray applied.



13

3M™ Adhesive Transfer Tapes (pg 83–87)

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Instant adhesion with no mess or waste and very thin bondlines.

Performance Factors for Large Surface Lamination Assemblies

All 3M technologies in the table below are commonly used in large surface bonding applications. Use the table below as a relative comparison of product performance.

Good = + Better = ++ Best = +++

Attribute	3M™ Scotch-Weld™ Structural Adhesives	3M™ Contact and Spray Adhesives	3M™ Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M™ Adhesive Transfer Tapes
Shear and Peel Strength	+++	+	++	+++	++
Temperature and Solvent Resistance	+++	+	++	+++	+
Aesthetics and Read Through	+	+++	++	++	+++
Speed and Convenience of Application	+	+++	++	++	++
Rate of Strength Build	+	+++	+++	++	+++

Large Surface Lamination Assembly Solutions

	Metals, Paints, Glass	Rubber (EPDM, Santoprene®)	Foam and Cloth (Urethane, Fabrics)	Plasticized Vinyl	Plastics (ABS, Acrylic, Polycarbonate, Nylon)	Wood	
Metals, Paints, Glass	<ul style="list-style-type: none"> ■ LSB60 ■ 94 CA, 1357 ■ 6111/6111HT ■ TS230, TS115HGS ■ F9473PC, 9485PC 	<ul style="list-style-type: none"> ■ 2216 ■ 1300, 847 ■ *468MP, 950 	<ul style="list-style-type: none"> ■ 74, 100NF ■ 6111/6111HT ■ 6035PC, 950 	<ul style="list-style-type: none"> ■ 2216 ■ 4491, 1000NF ■ F9467U, F9465PC 	<ul style="list-style-type: none"> ■ 2216 ■ 94 CA, 4475 ■ 6111/6111HT, 6116 ■ TS230, TS115 ■ 468MP, 9472LE 	<ul style="list-style-type: none"> ■ 2216 ■ 94 CA, 1357 ■ 6111/6111HT ■ TS230, TS115HGS ■ 6035PC, 468MP 	
		<ul style="list-style-type: none"> ■ 2216 ■ 4799 ■ TS230 ■ *468MP, 950 	<ul style="list-style-type: none"> ■ 4799 ■ TS230, TS115 ■ 6035PC, 950 	<ul style="list-style-type: none"> ■ 2216 ■ 4799 ■ TS230, TS115 ■ *F9467U, F9465PC 	<ul style="list-style-type: none"> ■ 2216 ■ 4799 ■ TS230, TS115 ■ *468MP, 9472LE 	<ul style="list-style-type: none"> ■ 2216 ■ 4799 ■ TS230, TS115HGS ■ *468MP, 950 	
			Foam and Cloth	<ul style="list-style-type: none"> ■ 4491, 1000NF ■ TS230, TS115 ■ 950, F9465PC 	<ul style="list-style-type: none"> ■ 77, 74 ■ 6111/6111HT, 6116 ■ TS230, TS115 ■ 950, 6035PC 	<ul style="list-style-type: none"> ■ 77, 1000NF ■ 6111/6111HT, 6116 ■ TS230, TS115HGS ■ 950, 6035PC 	
				Plasticized Vinyl	<ul style="list-style-type: none"> ■ 2216 ■ 4491, 1300 ■ TS230, TS115 ■ F9467U, F9465PC 	<ul style="list-style-type: none"> ■ 2216 ■ 4491, 1300 ■ TS230, TS115 ■ F9467U, F9465PC 	
					Plastics	<ul style="list-style-type: none"> ■ 2216 ■ 94 CA, 4475 ■ 6111/6111HT, 6116 ■ TS230, TS115 ■ 9472LE, 468MP 	<ul style="list-style-type: none"> ■ 2216 ■ 94 CA, 4475 ■ 6111/6111HT, 6116 ■ TS230, TS115HGS ■ 9472LE, 468MP
						Wood	<ul style="list-style-type: none"> ■ 2216 ■ 94 CA, 30NF ■ 6111/6111HT, 6116 ■ TS230, TS115HGS ■ 6035PC, 468MP

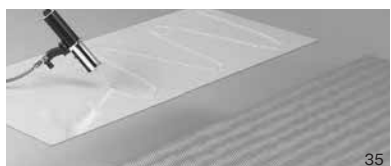
Key

- 3M™ Scotch-Weld™ Structural Adhesives
- 3M™ Contact and Spray Adhesives
- 3M™ Hot Melt Adhesives
- 3M™ Scotch-Weld™ PUR Adhesives
- 3M™ Adhesive Transfer Tapes

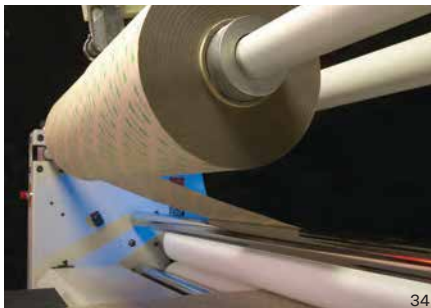
*Primers may also be required in some cases. See specific product pages for primer details.



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This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What are Mounting and Trim Attachment Assemblies?



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Mounting and trim attachment exists in multiple markets, such as transportation, appliance, furniture, construction and architecture.

Mounting: Applying an object to a surface. Generally, static loads are prevalent and the mounted item is smaller than the surface to which it is bonded. **Examples include small signs, mirrors and white boards, and panel-over-panel with partial adhesive coverage.**

Trim: Decoration or identification added to a surface. **Examples include nameplates, edge banding, bezels, rosettes and muntin bars.**

Possible Adhesive or Tape Requirements:

- Dead load holding strength
- Aesthetics
- Removability
- Fast bonding/little or no fixturing

Best 3M Solutions for Mounting and Trim Attachment Assemblies



3M™ VHB™ Tapes (pg 68–75)

High-strength bonding tapes that are a proven alternative to screws, rivets, welds and other mechanical fasteners. Can pre-apply to trim for production flexibility. Ideal for dissimilar substrates.



3M™ Scotch-Weld™ Structural Adhesives (pg 18–36)

Acrylic, epoxy and urethane structural adhesives that hold over 1,000 psi in overlap shear strength. Use for heavy dead-loads with smaller joint areas (Example: brackets on heavy panels, poorly matched parts with high spring-back forces).



3M™ Scotch-Weld™ Instant Adhesives (pg 38–40)

One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



3M™ Hot Melt Adhesives (pg 47–51)

100% solid, thermoplastic resins that reach bond strength in seconds. Best for wood and plastic.



3M™ Scotch-Weld™ PUR Adhesives (pg 36–38)

One component, hot applied thermosetting adhesive with immediate strength and holding power. Final cured strength over 1,000 psi. Best for wood and plastic.

3M™ Reclosable Fasteners (pg 92–95)

3M™ Dual Lock™ and 3M™ Hook and Loop Reclosable Fasteners for strong yet easily removable fastening solutions. These products are ideal for quick mounting, trim or sign installation and change out.



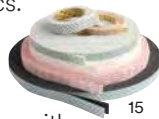
3M™ Adhesive Transfer Tapes (pg 83–87)

A pressure sensitive adhesive on a liner. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides very thin, aesthetic bondlines. Special formulations for LSE plastics.



3M™ Double Coated Tapes (pg 77–80)

A paper, film or tissue carrier with pressure sensitive adhesive on both sides. Can be laminated onto a surface by hand or by automation. Can be pre-applied to trim. Provides very thin, aesthetic bondlines. Special formulations for LSE plastics.



Performance Factors for Mounting and Trim Attachment Assemblies

All 3M technologies in the table below are commonly used in mounting and trim attachment applications. Use the table below as a relative comparison of product performance. Good = + Better = ++ Best = +++

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Structural Adhesive	3M™ Scotch-Weld™ Instant Adhesive	3M™ Hot Melt Adhesives	3M™ Scotch-Weld™ PUR Adhesives	3M™ Reclosable Fasteners	3M™ Adhesive Transfer Tapes	3M™ Double Coated Tapes
Shear and Peel Strength	++	+++	++	++	+++	+	+	+
Temperature and Solvent Resistance	++	+++	+	+	+++	++	++	++
Aesthetics	+++	+	++	++	++	++	+++	+++
Repositionability During Application	+	+++	+	+	++	++	+	++
Rate of Strength Build	+++	+	+++	+++	++	+++	+++	+++
Removable After Cure	++	N/A	+	+	N/A	+++	++	++

Mounting and Trim Attachment Assembly Solutions

	Metals (Aluminum, Steel, Stainless, Galvanized)	Paints (Powder Coat, Painted Metal, Composite Panel, Sealed or Painted Wood)	Glass	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)	Wood
Metals	<ul style="list-style-type: none"> ■ 4941, 5952, RP45 ■ DP8805NS ■ 3789, 3747 ■ TE040, EZ250150 ■ SJ3550/51/52, SJ3571/72 ■ 468MP, F9473PC ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8810NS ■ 3764, 3747 ■ TE040, EZ250150 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP420NS ■ 3789, 3747 ■ SJ3560/61/62, SJ3571/72 ■ 468MP, F9473PC ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8805NS ■ 3764, 3747 ■ TE040, EZ250150 ■ SJ3550/51/52, SJ3571/72 ■ 468MP, 9472LE ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP8010 Blue ■ 3764, 3747 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9500PC 	<ul style="list-style-type: none"> ■ 3792 ■ EZ250150
Paints	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8810NS ■ PR100 ■ 3764, 3792 ■ EZ250150 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 468MP ■ 9832, 9500PC 	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP420NS ■ 3764, 3792 ■ EZ250150 ■ SJ3560/61/62, SJ3571/72 ■ 9472LE, 468MP ■ 9832, 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8410NS ■ PR100 ■ 3747, 3792 ■ EZ250150 ■ SJ3550/51/52, SJ3571/72 ■ 468MP, 9472LE ■ 9832, 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9832, 9500PC 	<ul style="list-style-type: none"> ■ 3764, 3792 ■ EZ25150 	
Glass	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP100 Plus Clear ■ 3792 ■ SJ3560/61/62, SJ3571/72 ■ 468MP, F9473PC ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP100 Plus ■ 3748, 3792 ■ EZ250150 ■ SJ3550/51/52, SJ3571/72 ■ 468MP, 9485PC ■ 9500PC 	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9500PC 	<ul style="list-style-type: none"> ■ 3792 ■ EZ250120, EZ250150 		
Plastics: HSE, MSE	<ul style="list-style-type: none"> ■ *4941, 5952, *RP45 ■ DP8405NS ■ PR100 ■ 3748, 3792 ■ EZ250150, EZ250030 ■ SJ3550/51/52, SJ3571/72 ■ 468MP, 9472LE ■ 9500PC, 9832 	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9500PC, 9832 	<ul style="list-style-type: none"> ■ 3764, 3792 ■ EZ250150 			
Plastics: LSE	<ul style="list-style-type: none"> ■ *4941, *5952, *RP45 ■ DP8010 Blue ■ *PR100 ■ 3748, 3764 ■ SJ3540/41/42, SJ3526N/27N ■ 9472LE, 9485PC ■ 9500PC 	<ul style="list-style-type: none"> ■ 3764, 3792 ■ EZ250150 				
Wood	<ul style="list-style-type: none"> ■ 3792 ■ EZ250120, EZ250060 					

Key

- 3M™ VHB™ Tapes
- 3M™ Scotch-Weld™ Structural Adhesives
- 3M™ Scotch-Weld™ Instant Adhesives
- 3M™ Hot Melt Adhesives
- 3M™ Scotch-Weld™ PUR Adhesives
- 3M™ Reclosable Fasteners
- 3M™ Adhesive Transfer Tapes
- 3M™ Double Coated Tapes

*Primers may also be required in some cases. See specific product pages for primer details.



For 3M™ VHB™ Tape applications in the Window and Door market, refer to page 70 for a selection of



What are Gasket Attachment Assemblies?



Gaskets are used in multiple markets, such as electronics, transportation, fluid handling equipment and appliance.

Gasketing: Attachment of a substrate typically, foam, rubber or paper that acts as an interface or seal between two surfaces. 3M offers solutions for attaching preformed gaskets, and also solutions which can replace gaskets or bond and seal simultaneously. **Examples include air and liquid filters, fluid handling equipment, heat exchangers and ball joints.**

Possible Adhesive or Tape Requirements:

- Easy and fast to apply gaskets
- Resist fluids
- High adhesion to foams and rubber

Best 3M Solutions for Gasket Assemblies



3M™ VHB™ Tapes (pg 62–69)
High-strength bonding tapes that can be die-cut into a variety of shapes to replace rubber or foam gaskets, providing an instant, simple solution. Their closed-cell construction provides a watertight barrier between flat parts.



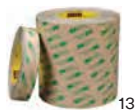
3M™ Scotch-Weld™ Instant Adhesives (pg 29)
One part solvent-free cyanoacrylate (CA) adhesive that reaches handling strength in 5–30 seconds. Best for small very tight bondlines (<10cm²). Commonly used on rubbers and plastics.



3M™ Scotch-Weld™ Gasket Makers (pg 33)
One-part anaerobic adhesives can be applied as a curing liquid gasket between complex metal shapes, replacing pre-formed gaskets.



3M™ Contact and Spray Adhesives (pg 54–57)
Solvent and water based adhesives can be sprayed, brushed or roll applied. Very fast, easy and economical coverage of multiple substrates, irregular shapes and mild textures.



3M™ Adhesive Transfer Tapes (pg 78–81)
Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion to flat, untextured substrates.



3M™ Double Coated Tapes (pg 71–76)
Can be pre-applied to gasketing material which is then die-cut to provide parts. These products provide instant adhesion.

Performance Factors for Gasket Assemblies

All 3M technologies in the table below are commonly used in gasket attachment applications. Use the table below as a relative comparison of product performance. Good = + Better = ++ Best = +++

Attribute	3M™ VHB™ Tapes	3M™ Scotch-Weld™ Instant Adhesives	3M™ Scotch-Weld™ Gasket Makers	3M™ Contact and Spray Adhesives	3M™ Adhesive Transfer Tapes	3M™ Double Coated Tapes
High Strength and Rubber Bonding	N/A	+++	N/A	++	+	+
Temperature and Solvent Resistance	+++	+	+++	+++	+++	+++
Ease of Application	+++	++	++	+	+++	+++
Rate of Strength Build	+++	+++	+	+++	+++	+++

Gasket Attachment Assembly Solutions

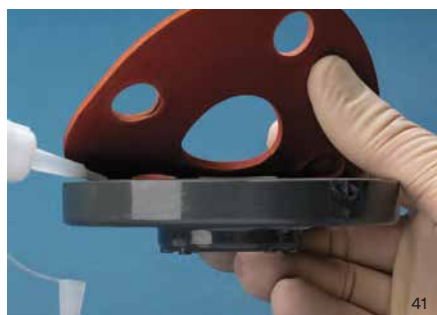
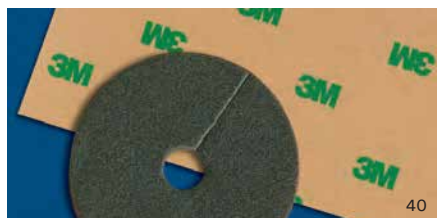
	Metal	Glass	Paint	Plastics: HSE	Plastics: LSE
Rubber (EPDM, Santoprene®)	<ul style="list-style-type: none"> ■ *PR100 ■ 4799 ■ *468MP, 950 ■ 9832 	<ul style="list-style-type: none"> ■ 4799 ■ *468MP, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 4799 ■ *468MP, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 4799 ■ *468MP, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 4799 ■ *9472LE, 950 ■ 9832
Silicone Gaskets	<ul style="list-style-type: none"> ■ *PR100 ■ GM18 replace gasket ■ 91022 ■ 9731, 96042 	<ul style="list-style-type: none"> ■ 91022 ■ 9731, 96042 	<ul style="list-style-type: none"> ■ *PR100 ■ 91022 ■ 9731, 96042 	<ul style="list-style-type: none"> ■ *PR100 ■ 91022 ■ 9731, 96042 	<ul style="list-style-type: none"> ■ *PR100 ■ 91022 ■ 9731, 96042
Neoprene	<ul style="list-style-type: none"> ■ *PR100 ■ 6035PC, 950 ■ 9832 	<ul style="list-style-type: none"> ■ 1300 ■ 6035PC, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 1300 ■ 6035PC, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 1300 ■ 6035PC, 950 ■ 9832 	<ul style="list-style-type: none"> ■ *PR100 ■ 90 ■ 6035PC, 950 ■ 9832
Nylon	<ul style="list-style-type: none"> ■ PR100 ■ 9472LE 	<ul style="list-style-type: none"> ■ 1099 ■ 9472LE 	<ul style="list-style-type: none"> ■ PR100 ■ 1099 ■ 9472LE 	<ul style="list-style-type: none"> ■ PR100 ■ 1099 ■ 9472LE 	<ul style="list-style-type: none"> ■ *PR100 ■ 90 ■ 9472LE
PTFE	<ul style="list-style-type: none"> ■ *PR100 ■ GM18 replace gasket ■ 950 	<ul style="list-style-type: none"> ■ 9472LE 	<ul style="list-style-type: none"> ■ *PR100 ■ 9472LE 	<ul style="list-style-type: none"> ■ *PR100 ■ 9472LE 	<ul style="list-style-type: none"> ■ *PR100 ■ 9472LE

3M™ VHB™ Tape can replace gaskets on many substrates listed in the chart.

3M™ Scotch-Weld™ Gasket Makers are suitable to replace gaskets in metal to metal applications.

Key
■ 3M™ Scotch-Weld™ Instant Adhesives
■ 3M™ Scotch-Weld™ Gasket Makers
■ 3M™ Contact and Spray Adhesives
■ 3M™ Adhesive Transfer Tapes
■ 3M™ Double Coated Tapes

*Primers may also be required in some cases. See specific product pages for primer details.



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

What is Sealing of Assemblies? What is Potting and Encapsulating of Assemblies?



Sealing and potting exists in multiple markets, such as transportation, metalworking, electronics, electrical, construction and MRO.

Sealing: Tape or sealant is applied over a seam to prevent fluid ingress or fluid egress. **Examples include roof seams on vehicles, seams on metal enclosures and pipe sealing.**

Potting and Encapsulating: Adhesive flows over and around a component or fills in a chamber to protect components therein. **Examples include heavy duty electrical cords and connectors, electronics in plastic cases, circuit boards and concrete repair.**

Possible Adhesive or Tape Requirements:

- Highly elongating/flexible
- Fast cure for painting
- Durability

Best 3M Solutions for Sealing, Potting and Encapsulating



3M™ Scotch-Weld™ Structural Adhesives (pg 18–35)

Acrylic, epoxy and urethane structural adhesives are available in a variety of cure times and flow profiles for potting and encapsulation. Available in both rigid and flexible formulations.



3M™ Hot Melt Adhesives (pg 44–45)

Extrudable, 100% solid, thermoplastic resins designed for potting and encapsulating electrical components.



3M™ Adhesive Sealants (pg 58–59)

Acrylic, polyurethane and nitrile and hybrid are one component sealing technologies. Can be extruded in any shape on a substrate and are non-sag to fill gaps. Some formulations can be painted wet.



3M™ Extreme Sealing Tapes (pg 70)

Provides instant sealing and paint-ability when applied over seams or gaps. Conformable over rivets.

Performance Factors for Sealing, Potting and Encapsulating

All 3M technologies in the table below are commonly used in sealing, potting and encapsulation applications. Use the table below as a relative comparison of product performance.

Good = + Better = ++ Best = +++

Attribute		3M™ Scotch-Weld™ Structural Adhesives	3M™ Hot Melt Adhesives	3M™ Adhesive Sealants	3M™ Extreme Sealing Tapes
Sealing	Flexibility	N/A	N/A	+++	+++
	Ease of Application	N/A	N/A	+++	++
	Time to Paint (or handle part)	N/A	N/A	+	+++
	Immediate Rework	N/A	N/A	+++	+
Potting and Encapsulating	Temperature and Solvent Resistance	+++	++	+	N/A
	Time to Paint (or handle part)	++	+++	+	N/A
	Flowability*	+++	++	+	N/A
	Adhesion to Substrates	+++	++	+	N/A

*3M™ Scotch-Weld™ Structural Adhesives and 3M™ Hot Melt Adhesives are used for potting and encapsulating where their flow and conformability allow them to fill into, or dome over, complex shapes. 3M™ Adhesive Sealants are thick and can be dispensed into wide vertical or horizontal gaps, as well as over seams. 3M™ Extreme Sealing Tape seals over seams and narrow gaps but does not flow into gaps. It can conform over low profile objects such as rivet heads.

Sealing, Potting and Encapsulating Assembly Solutions

	Metals (Aluminum, Steel, Stainless, Galvanized)	Paints (Powder Coat, Painted Metal, Composite Panel)	Glass	Plastics: HSE, MSE (ABS, Acrylic, Polycarbonate, Nylon)	Plastics: LSE (Polypropylene, Polyethylene)
Metals	<ul style="list-style-type: none"> ■ 2216, DP270 ■ 3797, 3748 VO ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ 2216, DP604NS ■ 3797, 3748 VO ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP125 Gray, DP100 Plus Clear ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ 2216, DP604NS ■ 3797, 3748 VO ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ 3797, 3748 VO ■ *540, *740 ■ *4411B, *4411N, *4411G
		<ul style="list-style-type: none"> ■ 2216, DP604NS ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP125 Gray, DP100 Plus Clear ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ 2216, DP604NS ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ *540, *740 ■ *4411B, *4411N, *4411G
			<ul style="list-style-type: none"> ■ DP125 Gray, DP100 Plus Clear ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP125 Gray, DP100 Plus Clear ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ *540, *740 ■ *4411B, *4411N, *4411G
				<ul style="list-style-type: none"> ■ 2216, DP604NS ■ 3797, 3748 VO ■ *540, *740 ■ 4411B, 4411N, 4411G 	<ul style="list-style-type: none"> ■ DP8010 Blue ■ 3797, 3748 VO ■ *540, *740 ■ *4411B, *4411N, *4411G
					<ul style="list-style-type: none"> ■ DP8010 Blue ■ 3797, 3748 VO ■ *540, *740 ■ *4411B, *4411N, *4411G

Key

- 3M™ Scotch-Weld™ Structural Adhesives
- 3M™ Hot Melt Adhesives
- 3M™ Adhesive Sealants
- 3M™ Extreme Sealing Tapes

*Primers may also be required in some cases. See specific product pages for primer details.



This guide lists products that are commonly used for this specific application. It is important that the customer evaluates these suggested products in their specific application.

Substrates and Adhesion – A Surface Phenomenon, So Know Surfaces Well.

Adhesive attaches to the surfaces of two substrates, unlike a process that fuses the substrates into a unified whole such as welding or solvent activation of plastics. When selecting a 3M adhesive or tape, surface condition must be considered: roughness, smoothness, porosity, coated, uncoated, cleanliness, flexibility size of part and surface energy of part.

Adhesive paste, for example, flows readily into a rough surface for improved effective adhesion. Flexible materials such as paper or thin gauge metal can be bonded with thin adhesive transfer tape. Large rigid parts with smooth clean surfaces can be bonded with a variety of 3M product ranging from double-coated foam tapes to two-part structural adhesives. Some plastics have plasticizers which migrate to the surface and degrade the bond over time, so plasticizer-resistant adhesive or tape is essential. If the surface has been powder coat painted, the coating is the bonding surface rather than the substrate, and you would want to consider a 3M tape or adhesive developed specifically for the surface.

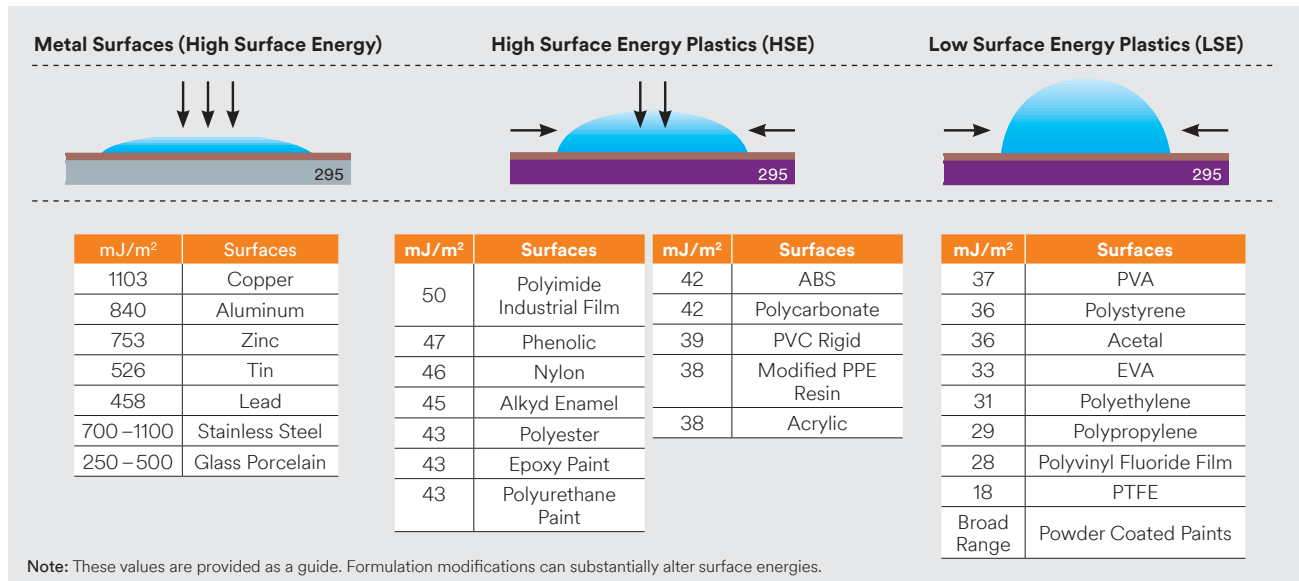
Surface energy ranges from high to low. To illustrate the concept of surface energy, think of water on an unwaxed hood of a car. The unwaxed hood has high surface energy and the water on the hood flows into puddles. In comparison, a waxed hood has low surface energy and the water beads up rather than flow out. Similar to water, adhesive on a high surface energy flows and “wets out” the surface. “Wetting out” is required to form a strong bond.

As a rule of thumb, the higher the surface energy, the greater the strength of the adhesion.

Specially formulated adhesives are available for low surface energy surfaces. The following illustrations and surface rankings give an idea of the relative surface energy.

Regardless of surface energy, the substrate must be unified, dry and clean to maximize adhesive contact.

Surface Energy Chart



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Adhesives and Sealants

The best formulas deliver the best performance.

Powerful Adhesive and Sealant Solutions

3M offers a wide range of innovative adhesives and sealants designed for industrial markets. High quality, precision formulations with proven performance provide reliable, long-term durability for a variety of applications, indoors and out.



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**Design with
Confidence.**

**Build to
Last.**



Scotch-Weld™
Structural Adhesive

In today's world, successful new products demand advancements in design, manufacturing processes and end-use performance. Industrial engineering and design professionals around the world depend on 3M™ Scotch-Weld™ Structural Adhesives to help them design beyond the limits of mechanical fasteners to create next generation products.

Trusted innovations from aerospace to office space

With over 60 years of experience developing innovative structural adhesives for aerospace, automotive and hundreds of other industries, 3M delivers the solutions you can trust. Our advanced formulations create durable bonds, even on challenging materials or in extreme conditions.

3M global service and support

3M supports our customers with the testing, technology, and training needed to create better products. Our world-wide support staff has the experience you can rely on for everything from structural adhesive selection to process improvement.

Leverage 3M's proven selection of structural adhesives, deep industry expertise, and technical support to your advantage. Design with Confidence. Build to Last.



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Advancing design, process and performance

The benefits of designing and building products with 3M™ Scotch-Weld™ Structural Adhesives help drive product success. Eliminating mechanical fasteners provides a wide range of benefits for all stages of product development.



Improve Aesthetics: Improve product appearance with invisible joints and smoother bond lines, reduce weight and noise, enhance corrosion and fatigue resistance, and more.

Freedom of Design: Join composites to metal, build with hard-to-bond plastics, and use thinner, lighter weight materials.



Enhance Productivity: Reduce labor and material costs, build faster with minimal surface prep and match cure rates to your process needs.

Accurate and Easy: Dispense by hand or with automated equipment, and choose from a wide range of viscosities and flow rates.



Strong, Flexible Bonds: Adhesives bond and seal simultaneously, eliminate stress concentration and absorb shock and vibration for durable bonds.

Increased Durability: Resist chemicals, environment, galvanic corrosion, fatigue, and material separation along edges or corners.

Simplifying Adhesive Decisions for Your Application

The following questions will help you narrow adhesive choices to a few possibilities for evaluation.

Q: What materials will be bonded?

A: Structural adhesives work by adhering to the top surface of the bonded parts, so it's important to know the exact material and condition on those surfaces. For metals, will the adhesive be applied to bare metal, or will there be a paint or coating on the surface? For plastics, exactly which base resin? Could there be residual release agents on the surfaces used for mold release?



300

Q: What is the preferred cure speed?

A: The chosen structural adhesive must have enough work life (open time, pot life) to allow proper mixing and application of the adhesive and assembling of the bonded parts. Smaller assemblies or shorter cycle time production processes may be able to use a faster curing adhesive with a work life of only five minutes or less, while larger assemblies that require alignment and clamping will probably need a work life of 20 minutes or more.



301

Q: What surface preparation will be required?

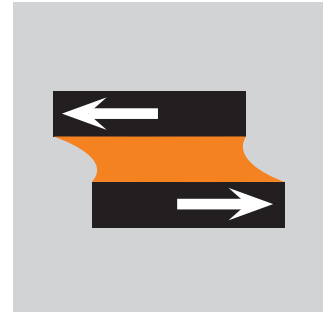
A: Structural adhesives generally prefer clean, rough, dry surfaces for highest bond strength. This typically means either light abrasion and solvent cleaning of the surface, or solvent cleaning followed by chemical etching or applying a primer. Adhesion tests should be performed to determine the adequate surface preparation for a specific application.



302

Q: What types of joints are best for structural adhesives?

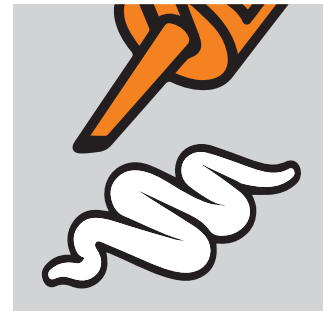
A: Joint designs that put the adhesive bond under shear, tension, or compression forces will provide the highest strength. Designs that tend to apply peel or cleavage forces to the adhesive, where the applied stresses are not distributed over the entire bond area, will have lower bond strength, but the bond may still be sufficient for the needs of the application. In addition, optimum bond line thickness typically ranges from 0.005" to 0.020". The adhesive qualification process should always include testing of prototype assemblies to ensure the adhesive will provide enough performance.



303

Q: How are structural adhesives used and applied?

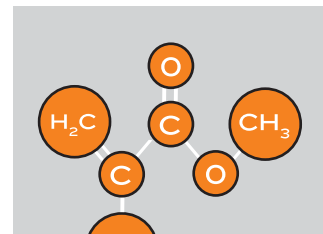
A: Structural adhesives come in many forms, including low viscosity liquids and non-sag pastes, one- and two-component formulations, short and long work lives, and various package sizes and shapes. Most two-part structural adhesives are available in both bulk containers and convenient, easy-to-use cartridge mixing systems.



304

Q: What are the general characteristics of the different types of structural adhesives?

A: All structural adhesives provide at least 1,000 psi of overlap shear strength to aluminum, but the different adhesive chemistries have various properties.



305



Epoxy adhesives come in both two-part adhesives (that cure upon mixing the two components) and one-part adhesives (that cure with temperature). They generally have the highest strength and overall performance. They also provide the best resistance to high temperatures, solvents and outdoor weathering. They adhere well to metals, woods and concrete, and the flexible epoxy adhesives also bond to some plastics and rubbers. Epoxy adhesives usually require clean, abraded surfaces to obtain maximum bond strength.

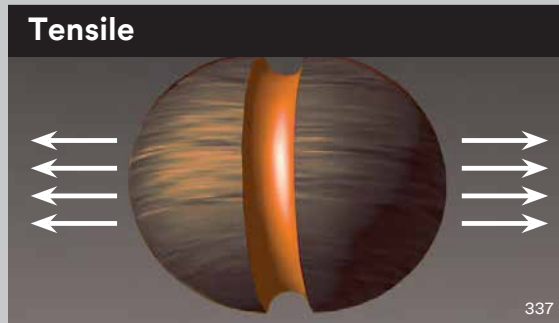
Acrylic adhesives are two-part adhesives that provide excellent bond strength and durability, although slightly lower than epoxy adhesives. However, they have several features that make them easier to use in many applications and manufacturing processes. These benefits include a much faster cure speed, higher tolerance for oily or unprepared bonding surfaces and the ability to bond a wide variety of materials, including nearly all plastics. Newer acrylic adhesive formulations are room temperature stable with a long shelf life, and some have much lower odor than regular acrylic adhesives.

Urethane adhesives are two-part adhesives that are relatively flexible when cured, and therefore tend to have excellent impact resistance and good adhesion to most plastics. They also bond well to woods, concrete and rubbers, but they tend to have reduced resistance to solvents and high temperatures. Uncured adhesive components are sensitive to moisture.

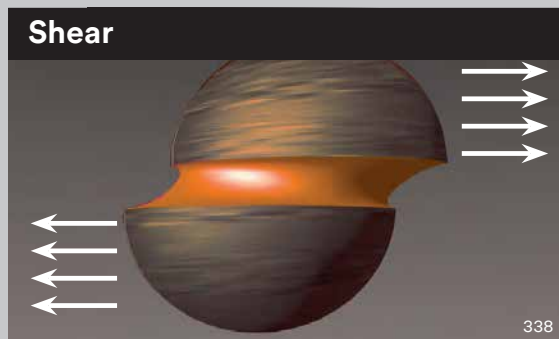
Cyanoacrylate adhesives (instant adhesives) are one-component, lower viscosity liquids that cure extremely quickly with just contact pressure and surface moisture. They adhere well, with thin bond lines, to plastics, metals and rubbers. With the use of primers, they can also adhere to low surface energy plastics and elastomers. They tend to have low flexibility, peel strength and impact resistance compared to other structural adhesives. They are generally used for applications such as gasket bonding and smaller assemblies.

Anaerobic adhesives are one-part adhesives that cure on active metal surfaces when oxygen gets excluded from the bond line. These products keep your factory running efficiently, reducing maintenance and leakage. They do not bond well to glass, plastics or rubbers, and are primarily used for applications such as locking threads and sealing pipe connections.

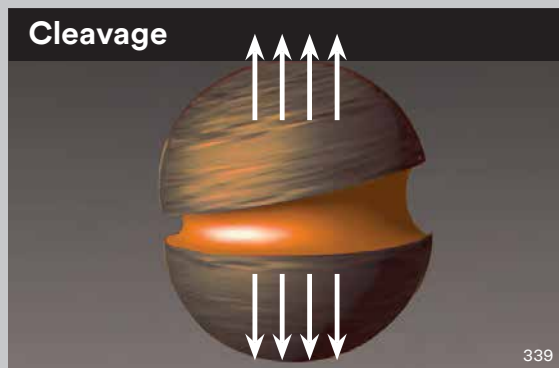
PUR adhesives (Polyurethane-reactive adhesives) are one-part adhesives that apply like a hot melt, but cure with ambient moisture for near structural strength bonds. Fast set times and build strength over the next 24–48 hours can reach as much as 1,000 psi in overlap shear strength. They are flexible and resistant to temperature extremes and most solvents. Most commonly used in bonds where at least one substrate contains or transmits moisture (such as wood or plastic).



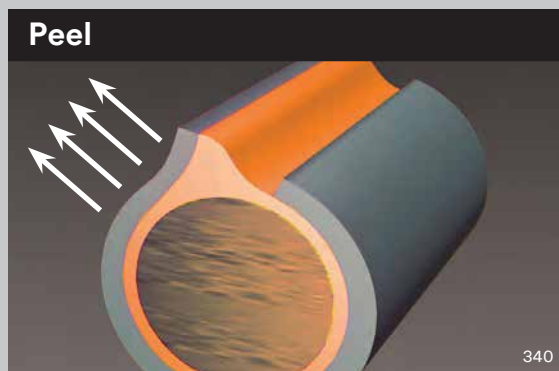
Tensile
Tensile is pull exerted equally over the entire joint. Pull direction is straight and away from the adhesive bond.



Shear
Shear is pull directed across the adhesive, forcing the substrates to slide over each other.



Cleavage
Cleavage is pull concentrated at one edge of the joint, exerting a prying force on the bond. The other edge of the joint is theoretically under zero stress.



Peel
Peel is concentrated along a thin line at the edge of the bond where one substrate is flexible.

Key markets and applications for 3M™ Scotch-Weld™ Structural Adhesives.



Sporting Goods

Key Features and Benefits

- Excellent impact resistance of high stressed bonds
- High strength for small joints
- High strength bonding of rubber, composites and metals to each other



Key Products

DP420NS Black, DP8810NS, PR100, TS230



Specialty Vehicle

Key Features and Benefits

- Weight reduction
- High strength
- Vibration and fatigue resistance



Key Products

DP8410NS, LSB60NS, TL42



Signage

Key Features and Benefits

- One adhesive to bond all of your substrates
- Strong formulations and thin bond lines
- Weather resistance
- UL recognition



Key Products

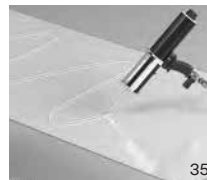
DP8805NS, DP8405NS, DP100 Plus



Metalworking

Key Features and Benefits

- High strength and durability
- Reduced surface preparation before bonding, and no grinding after bonding
- Save weight and improve appearance with adhesives instead of welds or rivets



Key Products

DP420NS Black, DP8407NS, DP8410NS



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Electronics

Key Features and Benefits

- Excellent impact resistance of high stressed bonds
- High strength for small joints
- High strength bonding of rubber, composites and metals to each other



Key Products

DP420NS Black, DP8810NS, PR100, TS230



Appliance

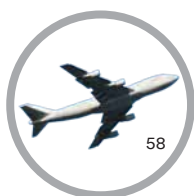
Key Features and Benefits

- Simplify operations by bonding after powdercoating
- Eliminate the challenge of bonding rigid to flexible substrates
- Noise damping
- Reduce complexity-bond and seal glass to metal in one step



Key Products

DP125 Gray, DP8810NS, TS230, TL42



Aerospace

Key Features and Benefits

- Available in UL94 or FST compliant options
- Strong, yet flex

Key Products

2216 Gray, DP100FR, DP640



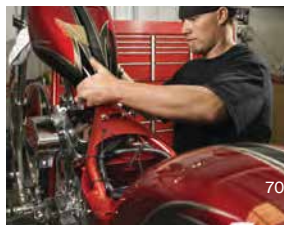
Plastic, Composite & Rubber

Key Features and Benefits

- Bonding of low surface energy plastics without priming
- Impact resistant composite bonding

Key Products

DP8010 Blue, DP420NS, DP6310NS, TS230, PR100

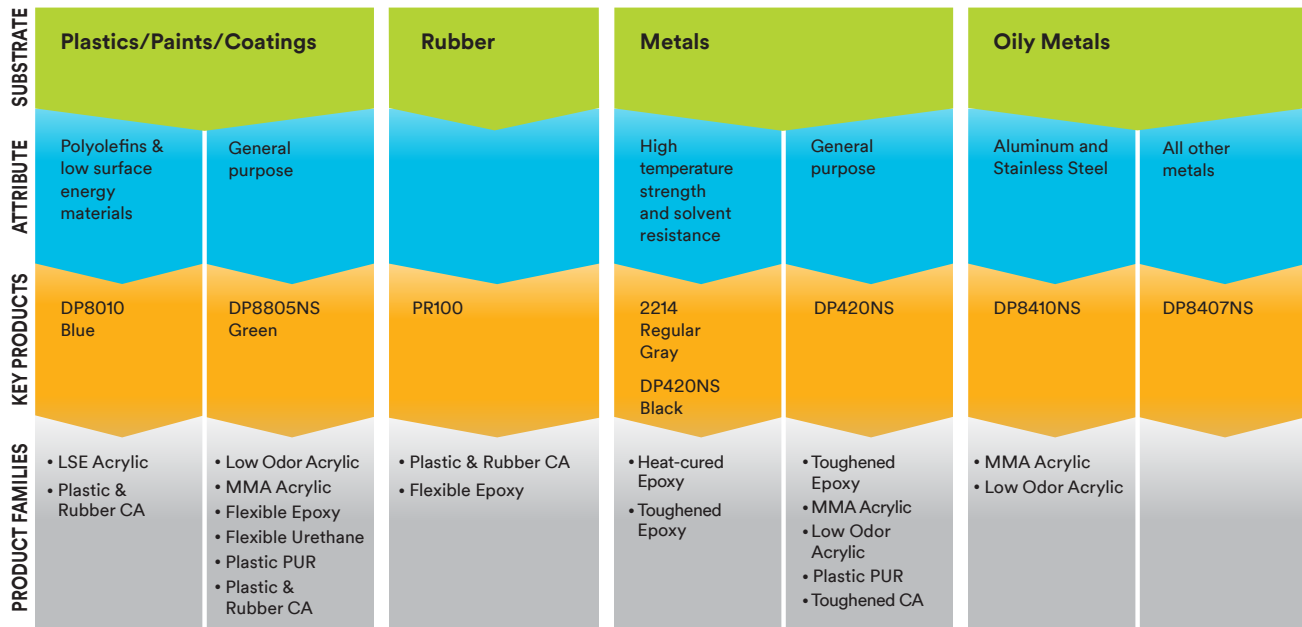


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3M™ Scotch-Weld™ Adhesives Selector Guide

Step 1: Select Most Difficult Substrate Step 2: Determine Key Attribute Step 3: Select Product Family



*See chart in back of guide for more details.

■ SUBSTRATE ■ ATTRIBUTE ■ KEY PRODUCT ■ PRODUCT FAMILIES

Structural Adhesive Families

Rigid Epoxy Adhesives: Higher tensile strength at lower elongations for greater long-term holding power. Mostly used for rigid substrates (metals) with high static loads.

Flexible Epoxy Adhesives: Lower tensile strength at higher elongations for greater capability to withstand differential movement of bonded parts; higher peel strength and higher adhesion to most plastics.

Toughened Epoxy Adhesives: Higher tensile strength at lower elongations for fatigue resistance; best suited for dynamic stresses. They have long-term holding power, higher peel strength, and exceptional higher resistance against shock, vibration and impact loads. Lower adhesion to most thermoplastics.

Heat-cured Epoxy Adhesives: One-component, rigid adhesives with outstanding strength at elevated temperatures. These adhesives require a thermal cure, typically around 250–350°F (120–180°C) for 40–60 minutes.

MMA Acrylic Adhesives: Provides greater adhesion to a wide variety of materials including most plastics and paint systems, are tolerant of many surface contaminations. High impact resistance for metal bonds.

Low Odor Acrylic Adhesives: Less odor than typical acrylic adhesives and faster rate of strength build than most two-part structural adhesives. Excellent adhesion to a variety of materials, including plastics and paint systems. They provide high impact resistance for plastic bonds; and are tolerant of many surface contaminations.

LSE Acrylic Adhesives: Outstanding adhesion to polyolefin materials such as polypropylene, polyethylene and TPO without surface treatment.

Semi-rigid Urethane Adhesives: Higher tensile modulus and lower elongation capability, with greater long-term holding power.

Flexible Urethane Adhesives: Lower tensile modulus and higher elongation capability. Excellent adhesion to most plastics.

Instant Adhesive Families

Plastic & Rubber (PR) Instant Adhesives: Bond to the widest variety of materials, have an extremely fast cure speed, and come in a wide range of viscosity.

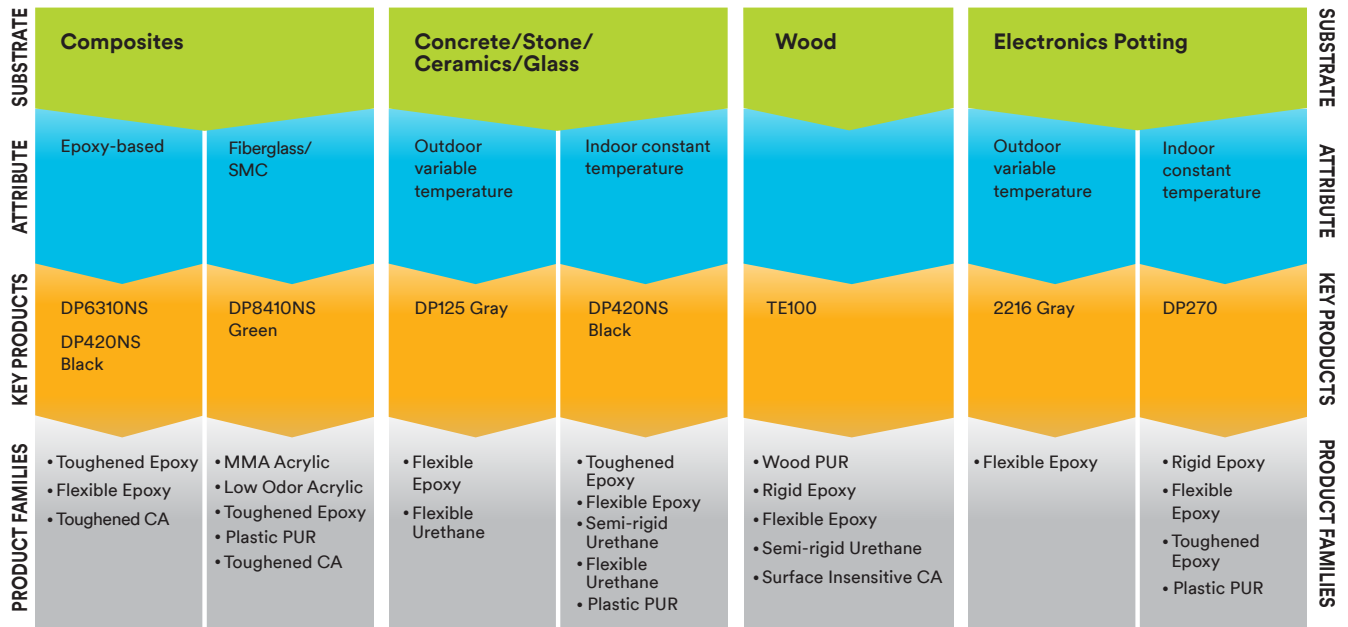
Surface Insensitive (SI)
on acidic surfaces (such as ceramic); these adhesive traditional instant adhesives



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Step 1: Select Most Difficult Substrate **Step 2: Determine Key Attribute** **Step 3: Select Product Family**



*See chart in back of guide for more details.

■ SUBSTRATE ■ ATTRIBUTE ■ KEY PRODUCT ■ PRODUCT FAMILIES

Low Odor (LO) Instant Adhesives: Provide a reduced blooming effect for applications that require an improved appearance.

General Purpose (EC) Instant Adhesives: Slightly less expensive products that have lower strength and impact resistance compared to traditional instant adhesives.

Super Fast (SF) Instant Adhesives: Provide the fastest rate of cure speed for most applications.

Rubber Toughened (RT) Instant Adhesives: Can be used for applications that require improved impact strength or vibration resistance; preferred for applications bonding two rigid materials together.

Metal (MC) Instant Adhesives: Provide improved performance on metal substrates.

Engineered Grade (EG) Instant Adhesives: Provide excellent overall performance for most applications.

Anaerobic Adhesive Families

Threadlockers (TL): Hold screws and other threaded fasteners in place to prevent loosening from shock, vibration, and thermal expansion and contraction; these adhesives replace lock washers and nylon-insert nuts.

Retaining Compounds (RT): Bond and seal non-threaded cylindrical metal assemblies, such as press-fit or slip-fit parts; these adhesives replace keys, splines, and set screws.

Pipe Sealants (PS): Provide a pressure seal on threaded tubes and pipes; these adhesives replace various tapes and pastes.

Gasket Makers (GM): Fill voids between metal parts to create a form-in-place gasket; these adhesives replace o-rings and pre-formed gaskets.

PUR Adhesive Families

Wood PUR: Higher shear strength at lower elongations for long term holding power. Mostly used for rigid wood substrates and some plastics.

Plastic PUR: Higher impact strength, elongation and flexibility for greater capacity to withstand movement of bonded parts. Higher adhesion to most plastics, glass and aluminum.



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Substrate Selector

Step 1: Select Substrate **Step 2:** Determine Key Attribute **Step 3:** Select Product (see definitions below)

		Plastic/Paints/Coatings			Rubber	Metals			Oily Metals	
		Low Surface Energy	General Purpose			Temperature and Solvent Resistant	Stainless Steel & Aluminum	Other Metals	Stainless Steel & Aluminum	Other Metals
Plastic/Paints/Coatings	Low Surface Energy	LSE Acrylic* Plastic & Rubber CA	LSE Acrylic* Plastic & Rubber CA	Plastic & Rubber CA*	N/A	LSE Acrylic	LSE Acrylic	LSE Acrylic	LSE Acrylic	
	General Purpose	LSE Acrylic* Plastic & Rubber CA	LO Acrylic MMA Acrylic Plastic PUR Flexible Epoxy Plastic & Rubber CA	Plastic & Rubber CA* Plastic PUR	Toughened Epoxy Flexible Epoxy	LO Acrylic MMA Acrylic Flexible Epoxy Plastic PUR Plastic & Rubber CA	DP8407NS Toughened Epoxy Flexible Epoxy Plastic PUR Plastic & Rubber CA	LO Acrylic MMA Acrylic	DP8407NS	
Rubber		Plastic & Rubber CA*	Plastic & Rubber CA* Plastic PUR	Plastic & Rubber CA*	N/A	Flexible Epoxy Plastic PUR	Flexible Epoxy Plastic PUR	N/A	N/A	
Metals	Temperature and Solvent Resistant	N/A	Toughened Epoxy Flexible Epoxy	N/A	Toughened Epoxy Flexible Epoxy	Toughened Epoxy Flexible Epoxy	One-part Heat-cured Epoxy Toughened Epoxy	Heat-cured Epoxy	Heat-cured Epoxy	
	Stainless Steel & Aluminum	LSE Acrylic	LO Acrylic MMA Acrylic Flexible Epoxy Plastic PUR Plastic & Rubber CA	Plastic & Rubber CA* Plastic PUR	Toughened Epoxy Flexible Epoxy	LO Acrylic MMA Acrylic Toughened Epoxy Flexible Epoxy Rigid Epoxy Toughened CA	Heat-cured Epoxy Toughened Epoxy	LO Acrylic MMA Acrylic	DP8407NS Heat-cured Epoxy	
	Other Metals	LSE Acrylic	DP8407NS Toughened Epoxy Flexible Epoxy Plastic PUR Plastic & Rubber CA	Plastic & Rubber CA* Plastic PUR	Heat-cured Epoxy Toughened Epoxy	Heat-cured Epoxy Toughened Epoxy	Toughened Epoxy Flexible Epoxy Heat-cured Epoxy DP810	DP8407NS Heat-cured Epoxy	DP8407NS Heat-cured Epoxy	
Oily Metals	Stainless Steel & Aluminum	LSE Acrylic	LO Acrylic MMA Acrylic	N/A	Heat-cured Epoxy	LO Acrylic MMA Acrylic	DP8407NS Heat-cured Epoxy	LO Acrylic MMA Acrylic	DP8407NS	
	Other Metals	LSE Acrylic	DP8407NS	N/A	Heat-cured Epoxy	DP8407NS Heat-cured Epoxy	DP8407NS Heat-cured Epoxy	DP8407NS	DP8407NS Heat-cured Epoxy	
Composites	Fiberglass/SMC	LSE Acrylic Toughened CA*	Semi-rigid Urethane MMA Acrylic LO Acrylic Flexible Urethane Plastic PUR Toughened CA	Plastic & Rubber CA* Plastic PUR	Toughened Epoxy Flexible Epoxy Plastic PUR	Semi-rigid Urethane MMA Acrylic LO Acrylic Toughened Epoxy Plastic PUR Toughened CA	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	MMA Acrylic LO Acrylic	DP8407NS	
	Epoxy	LSE Acrylic Toughened CA*	Semi-rigid Urethane MMA Acrylic Flexible Epoxy Toughened Epoxy Plastic PUR Toughened CA	Plastic & Rubber CA* Plastic PUR	Toughened Epoxy Flexible Epoxy Plastic PUR	Semi-rigid Urethane Toughened Epoxy MMA Acrylic LO Acrylic Plastic PUR Toughened CA	Toughened Epoxy Flexible Epoxy Heat-cured Epoxy Plastic PUR	MMA Acrylic LO Acrylic Heat-cured Epoxy	Heat-cured Epoxy	
Concrete/Stone/Ceramics/Glass	Indoor	LSE Acrylic	Flexible Epoxy Rigid Urethane Flexible Urethane Plastic PUR	Flexible Epoxy Plastic PUR	Toughened Epoxy Flexible Epoxy	Toughened Epoxy Flexible Epoxy	Toughened Epoxy Heat-cured Epoxy	N/A	N/A	
	Outdoor	LSE Acrylic	Flexible Epoxy Flexible Urethane Plastic PUR	Flexible Epoxy Plastic PUR	Flexible Epoxy	Flexible Epoxy	Flexible Epoxy	N/A	N/A	
Wood		LSE Acrylic Surface Insensitive CA*	Wood PUR Flexible Epoxy Rigid Urethane Surface Insensitive CA	Plastic PUR Surface Insensitive CA*	Toughened Epoxy Plastic PUR Flexible Epoxy	Plastic PUR Toughened Epoxy Rigid Epoxy Flexible Epoxy Surface Insensitive CA	Plastic PUR Toughened Epoxy	N/A	N/A	

Bold = Best In Class Product Light = Suggested Alternate Product * = With Primer



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Substrate Selector (cont.)

Step 1: Select Substrate Step 2: Determine Key Attribute Step 3: Select Product (see definitions below)

		Composites		Concrete/Stone/Ceramics/Glass		Wood
		Fiberglass/SMC	Epoxy	Indoor	Outdoor	
Plastic/Paints/Coatings	Low Surface Energy	LSE Acrylic Toughened CA*	LSE Acrylic Toughened CA*	LSE Acrylic	LSE Acrylic	LSE Acrylic Surface Insensitive CA*
	General Purpose	Semi-rigid Urethane MMA Acrylic LO Acrylic Flexible Urethane Plastic PUR Toughened CA	Semi-rigid Urethane MMA Acrylic Flexible Epoxy Toughened Epoxy Plastic PUR Toughened CA	Flexible Epoxy Rigid Urethane Flexible Urethane Plastic PUR	Flexible Epoxy Flexible Urethane Plastic PUR	Wood PUR Flexible Epoxy Rigid Urethane Surface Insensitive CA
Rubber		Plastic & Rubber CA* Plastic PUR	Plastic & Rubber CA* Plastic PUR	Flexible Epoxy Plastic PUR	Flexible Epoxy Plastic PUR	Surface Insensitive CA* Plastic PUR Flexible Epoxy
Metals	Temperature and Solvent Resistant	Toughened Epoxy Flexible Epoxy Plastic PUR	Toughened Epoxy Flexible Epoxy Plastic PUR	Toughened Epoxy Flexible Epoxy	Flexible Epoxy	Toughened Epoxy Plastic PUR Flexible Epoxy
	Stainless Steel & Aluminum	Semi-rigid Urethane MMA Acrylic LO Acrylic Toughened Epoxy Plastic PUR Toughened CA	Semi-rigid Urethane Toughened Epoxy MMA Acrylic LO Acrylic Plastic PUR Toughened CA	Toughened Epoxy Flexible Epoxy	Flexible Epoxy	Plastic PUR Toughened Epoxy Rigid Epoxy Flexible Epoxy Surface Insensitive CA
	Other Metals	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Toughened Epoxy Flexible Epoxy Heat-cured Epoxy Plastic PUR	Toughened Epoxy Heat-cured Epoxy	Flexible Epoxy	Plastic PUR Toughened Epoxy
Oily Metals	Stainless Steel & Aluminum	MMA Acrylic LO Acrylic	MMA Acrylic LO Acrylic Heat-cured Epoxy	N/A	N/A	N/A
	Other Metals	DP8407NS	Heat-cured Epoxy	N/A	N/A	N/A
Composites	Fiberglass/SMC	Semi-rigid Urethane MMA Acrylic LO Acrylic Toughened Epoxy Flexible Epoxy Plastic PUR Toughened CA	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR Toughened CA	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Semi-rigid Urethane Flexible Epoxy Flexible Urethane Plastic PUR	Semi-rigid Urethane Toughened Epoxy Rigid Urethane Flexible Epoxy Plastic PUR
	Epoxy	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR Toughened CA	Toughened Epoxy Flexible Epoxy Plastic PUR Toughened CA	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Semi-rigid Urethane Flexible Epoxy Plastic PUR	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR
Concrete/Stone/Ceramics/Glass	Indoor	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Toughened Epoxy Flexible Epoxy Rigid Urethane Flexible Urethane	Flexible Epoxy Flexible Urethane	Flexible Epoxy Plastic PUR Flexible Urethane
	Outdoor	Semi-rigid Urethane Flexible Epoxy Flexible Urethane Plastic PUR	Semi-rigid Urethane Flexible Epoxy Plastic PUR	Flexible Epoxy Flexible Urethane	Flexible Epoxy Flexible Urethane	Flexible Epoxy Plastic PUR Flexible Urethane
Wood		Semi-rigid Urethane Toughened Epoxy Rigid Urethane Flexible Epoxy Plastic PUR	Semi-rigid Urethane Toughened Epoxy Flexible Epoxy Plastic PUR	Flexible Epoxy Plastic PUR Flexible Urethane	Flexible Epoxy Plastic PUR Flexible Urethane	Wood PUR Rigid Epoxy Toughened Epoxy Rigid Urethane Surface Insensitive CA

Bold = Best In Class Product Light = Suggested Alternate Product * = With Primer

Adhesives and Sealants



3M™ Scotch-Weld™ Structural Adhesives Coverage Guide

Approximate Coverages for 3M™ Scotch-Weld™ Adhesives in Duo-Pak Cartridges

Bead Size Dimension* inches (mm)	Linear ft/m per 37mL (2:1 Cart.)	Linear ft/m per 43mL (2:3 Cart.)	Linear ft/m per 45 mL (10:1 Cart.)	Linear ft/m per 50mL (1:1 & Cart.)	Linear ft/m per 200mL (1:1 & 2:1 Cart.)	Linear ft/m per 400mL (1:1 & 2:1 Cart.)	Linear ft/m per 490mL (10:1 Cart.)	Linear ft/m per 295mL (1/10 gal Cart.)
1/2" (12.7mm)	2 ft (0.6m)	2 ft (0.7m)	2 ft (0.7m)	2.5 ft (0.8m)	10 ft (3m)	21 ft (6m)	26 ft (8m)	20 ft (6m)
3/8" (9.5mm)	3.5 ft (1m)	4 ft (1m)	4 ft (1m)	4.5 ft (1m)	18 ft (6m)	37 ft (11m)	45 ft (14m)	35 ft (11m)
1/4" (6.4mm)	8 ft (2m)	9 ft (3m)	9 ft (3m)	11 ft (3m)	41 ft (13m)	83 ft (25m)	102 ft (31m)	79 ft (24m)
1/8" (3.2mm)	31 ft (9m)	36 ft (11m)	37 ft (11m)	42 ft (13m)	165 ft (50m)	331 ft (101m)	405 ft (123m)	312 ft (95m)
1/16" (1.6mm)	122 ft (37m)	142 ft (43m)	147 ft (45m)	165 ft (50m)	656 ft (200m)	1,313 ft (400m)	1,600 ft (488m)	1,234 ft (376m)

Coverages per Gallon for Various Thicknesses of 100% Solids 3M Adhesives

Wet Thickness inches (mm)	Ft ² /gal (m ² /L)	gal/1,000 ft ² (L/1,000m ²)
1/2" (12.7mm)	3 ft ² (0.1m ²)	312 gal (12,700L)
1/8" (3.2mm)	13 ft ² (0.3m ²)	78 gal (3,175L)
1/16" (1.6mm)	26 ft ² (0.6m ²)	39 gal (1,587L)
1/32" (0.8mm)	51 ft ² (1m ²)	20 gal (794L)
25 mils (0.64mm)	64 ft ² (1.5m ²)	16 gal (635L)
5 mils (0.13mm)	320 ft ² (8m ²)	3 gal (127L)

Coverages per Gallon for Various Bead Sizes of 100% Solids 3M Adhesives

Bead Size Dimension* inches (mm)	Approx. lineal ft/gal (m/L)	Approx. gal/1,000 lineal ft (liter/1,000m)
1/2" (12.7mm)	196 ft (16m)	5 gal (63L)
3/8" (9.5mm)	350 ft (28m)	3 gal (36L)
1/4" (6.4mm)	785 ft (63m)	1.3 gal (16L)
1/8" (3.2mm)	3,130 ft (252m)	0.3 gal (4L)
1/16" (1.6mm)	12,420 ft (1,000m)	0.1 gal (1L)

*Bead size is semi-circular bead with width equal to size noted and height at center of bead equal to 1/2 the width.

NOTE: The technical information and data provided here should be considered representative or typical only and should not be used for specification purposes.

3M™ Scotch-Weld™ Low Odor and MMA Acrylic Adhesives

3M's Low Odor and MMA Acrylic Adhesives are designed for all of your sign application needs. They provide excellent impact strength, high peel strength and greatly extended shelf life compared to ordinary structural adhesives. With high structural strength, fast cure and environmental resistance, they are the first choice for the sign industry. DP8805NS, DP8810NS, DP8825NS, DP8405NS, DP8407NS, DP8410NS and DP8425NS.



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3M™ Scotch-Weld™ Structural Adhesives



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Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-67°F (-55°C)	75°F (24°C)	180°F (82°C)			
3M™ Scotch-Weld™ Rigid Epoxies												
* DP100 100 (Clear)	General purpose, Rigid bonds	1:1	13,000	5 min	20 min	2 (4)	900 (6)	1,500 (10)	300 (2)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-22648-9 00-021200-87260-0 00-021200-87261-7 00-021200-82345-9 00-021200-82344-2	62-3575-1435-5 62-3575-3830-5 62-3575-3530-1 62-3675-8531-2 62-3575-8531-4
DP100FR 100FR (White)	Flame retardant, UL94 V-0 rating	1:1	80,000	6 min	20 min	2 (4)	1,250 (9)	2,200 (15)	800 (6)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-048011-56742-6 00-048011-56744-0 00-048011-56743-3 00-048011-57230-7 00-048011-57229-1	62-3531-1435-8 62-3531-3830-8 62-3531-3530-4 62-3631-8530-7 62-3531-8530-9
DP100NS 100NS (Translucent)	General purpose, Non-sag	1:1	95,000	5 min	20 min	2 (4)	900 (6)	1,500 (10)	300 (2)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-82255-1 00-021200-87264-8 00-021200-87265-5 00-021200-82257-5 00-021200-82256-8	62-3265-1435-3 62-3265-3830-3 62-3265-3530-9 62-3365-8530-2 62-3265-8530-4
* DP190 (Gray)	High performance, Slightly flexible bonds	1:1	80,000	90 min	10 hr	50 (89)	1,500 (10)	2,500 (17)	400 (3)	50mL 200mL 400mL	00-021200-22647-2 00-021200-87840-4 00-021200-87841-1	62-3553-1435-2 62-3553-3830-9 62-3553-3530-8
DP270 270 (Black)	Rigid potting compound, Non-corrosive	1:1	12,000	60 min	3 hr	2 (4)	1,200 (8)	2,500 (17)	300 (2)	50mL 200mL 400mL Gal kit 5 gal pail A 5 gal pail B	00-021200-82262-9 00-021200-87836-7 00-021200-87837-4 00-021200-82263-6 00-021200-82265-0 00-021200-82264-3	62-3266-1435-1 62-3266-3830-1 62-3266-3530-7 62-3266-7430-6 62-3366-8530-0 62-3266-8530-2
DP270 270 (Clear)	Rigid potting compound, Non-corrosive	1:1	12,000	60 min	3 hr	2 (4)	1,200 (8)	2,500 (17)	300 (2)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-82248-3 00-021200-87834-3 00-021200-87835-0 00-021200-82251-3 00-021200-82250-6	62-3262-1435-0 62-3262-3830-0 62-3262-3530-6 62-3362-8530-9 62-3262-8530-1
1751 B/A (Gray)	Excellent void filler, Rigid bonds	3:2	700,000	45 min	10 hr	4 (7)	1,400 (10)	2,000 (14)	500 (3)	2 oz tube kit Pint kit Qt kit Gal kit 5 gal pail A 5 gal pail B	00-021200-20100-4 00-021200-20101-1 00-021200-20103-5 00-021200-20105-9 00-021200-20108-0 00-021200-20120-2	62-1751-0530-3 62-1751-5430-1 62-1751-6430-0 62-1751-7430-9 62-1752-8530-3 62-1751-8530-5
1838 B/A (Green)	Multi-purpose, Rigid bonds	4:5	400,000	60 min	8 hr	4 (7)	1,500 (10)	3,000 (21)	500 (3)	2 oz tube kit Pint kit Qt kit Gal kit 5 gal pail A 5 gal pail B	00-021200-20148-6 00-021200-20150-9 00-021200-20152-3 00-021200-20154-7 00-021200-20160-8 00-021200-20155-4	62-1838-0530-8 62-1838-5430-6 62-1838-6430-5 62-1838-7430-4 62-1839-8530-8 62-1838-8530-0
1838L B/A (Translucent)	Multi-purpose, Rigid bonds	1:1	10,000	60 min	8 hr	4 (7)	2,000 (14)	2,500 (17)	300 (2)	2 oz tube kit Qt kit 5 gal pail A 5 gal pail B	00-021200-22645-8 00-021200-22646-5 00-021200-82635-1 00-021200-82634-4	62-3520-0535-9 62-3520-6435-6 62-3620-8531-8 62-3520-8531-0
2158 B/A (Gray)	Multi-purpose, Rigid bonds	1:1	375,000	2 hr	10 hr	3 (5)	1,500 (10)	2,000 (14)	400 (3)	Pint kit Qt kit Gal kit 5 gal pail A 5 gal pail B	00-021200-20258-2 00-021200-20260-5 00-021200-20262-9 00-021200-20269-8 00-021200-20264-3	62-2158-5430-8 62-2158-6430-7 62-2158-7430-6 62-2159-8530-0 62-2158-8530-2
3501 B/A (Gray)	Multi-purpose, Rigid bonds	1:1	500,000	7 min	25 min	4 (7)	1,500 (10)	2,400 (16)	300 (2)	2 oz tube kit 400mL Pint kit Gal kit 55 gal drum A 55 gal drum B	00-021200-20842-3 00-021200-45184-3 00-021200-20843-0 00-021200-20846-1 00-051111-091640-7 00-051111-91639-1	62-3501-0530-0 62-3501-3530-7 62-3501-5430-8 62-3501-7430-6 62-3601-9530-9 62-3501-9530-1

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3M™ Scotch-Weld™ Structural Adhesives (cont.)



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Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-67°F (-55°C)	75°F (24°C)	180°F (82°C)			
3M™ Scotch-Weld™ Flexible Epoxies												
DP100 Plus 100 Plus (Clear)	Very flexible, Colorless	1:1	8,500	4 min	20 min	55 (98)	3,000 (21)	3,500 (24)	200 (1)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-87195-5 00-021200-87266-2 00-021200-87267-9 00-021200-87198-6 00-021200-87197-9	62-3272-1435-9 62-3272-3830-9 62-3272-3530-5 62-3372-8530-8 62-3272-8530-0
DP105 105 (Clear)	Very flexible, Colorless	1:1	6,500	5 min	20 min	50 (89)	3,500 (24)	2,000 (14)	150 (1)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-87203-7 00-021200-87270-9 00-021200-87271-6 00-021200-87206-8 00-021200-87205-1	62-3287-1435-7 62-3287-3830-7 62-3287-3530-3 62-3387-8530-6 62-3287-8530-8
DP110 110 (Gray)	General purpose, Flexible bonds	1:1	55,000	8 min	20 min	40 (71)	2,700 (19)	3,500 (24)	250 (2)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-82470-8 00-021200-87274-7 00-021200-87275-4 00-021200-82472-2 00-021200-82471-5	62-3533-1434-7 62-3533-3830-4 62-3533-3530-0 62-3633-8531-3 62-3533-8531-3
DP110 110 (Translucent)	General purpose, Flexible bonds	1:1	50,000	8 min	20 min	40 (71)	2,500 (17)	2,500 (17)	200 (1)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-82465-4 00-021200-87846-6 00-021200-87847-3 00-021200-82467-8 00-021200-82466-1	62-3563-1434-4 62-3563-3830-1 62-3563-3530-7 62-3663-8531-8 62-3563-8531-0
DP125 125 (Gray)	High performance, Very flexible bonds	1:1	52,500	25 min	2.5 hr	90 (160)	3,400 (23)	4,300 (30)	400 (3)	50mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-87215-0 00-021200-87844-2 00-021200-87845-9 00-021200-87218-1 00-021200-87217-4	62-3293-1435-5 62-3293-3830-5 62-3293-3530-1 62-3393-8530-4 62-3293-8530-6
DP125 125 (Translucent)	High performance, Very flexible bonds	1:1	15,000	25 min	2.5 hr	85 (151)	4,000 (28)	2,500 (17)	150 (1)	50mL 200mL 400mL	00-021200-87211-2 00-021200-87842-8 00-021200-87843-5	62-3291-1435-9 62-3291-3830-9 62-3291-3530-5
DP190 (Translucent)	High performance Flexible bonds	1:1	10,000	80 min	6 hr	60 (107)	3,500 (24)	1,200 (8)	150 (1)	50mL 200mL 400mL	00-021200-87219-8 00-021200-87838-1 00-021200-87839-8	62-3286-1435-9 62-3286-3830-9 62-3286-3530-5
* 2216 B/A (Gray)	High performance Very flexible bonds	2:3	80,000	90 min	10 hr	50 (89)	3,000 (21)	3,200 (22)	400 (3)	43mL Duo-Pak 2 oz tube kit Pint kit Qt kit Gal kit 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-56659-2 00-021200-20351-0 00-021200-20354-1 00-021200-20356-5 00-021200-20358-9 00-021200-20365-7 00-021200-20360-2 00-021200-20366-4 00-021200-20361-9	62-2216-1435-7 62-2216-0530-6 62-2216-5430-4 62-2216-6430-3 62-2216-7430-2 62-2217-8530-6 62-2216-8530-8 62-2217-9530-5 62-2216-9530-7
2216 B/A (Translucent)	General purpose Very flexible bonds	1:1	10,000	2 hr	14 hr	70 (125)	3,000 (21)	1,700 (12)	140 (1)	2 oz tube kit Pint kit Qt kit Gal kit 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-20851-5 00-021200-20852-2 00-021200-20854-6 00-021200-20856-0 00-021200-64981-3 00-021200-64980-6 00-021200-20927-7 00-021200-20859-1	62-3508-0530-5 62-3508-5430-3 62-3508-6430-2 62-3508-7430-1 62-3608-8535-4 62-3508-8535-6 62-3608-9530-4 62-3508-9530-6
2216NS B/A (Tan)	High performance Non-sag	2:3	350,000	2 hr	10 hr	50 (89)	2,000 (14)	2,500 (17)	400 (3)	5 gal pail A 5 gal pail B	00-021200-87180-1 00-021200-87179-5	62-3378-8530-5 62-3278-8530-7

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3M™ Scotch-Weld™ Structural Adhesives (cont.)



Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-67°F (-55°C)	75°F (24°C)	180°F (82°C)			
3M™ Scotch-Weld™ Toughened Epoxies												
DP405 405 (Black)	Tough durable bonds, High impact resistance	2:1	40,000	4 min	15 min	40 (71)	4,500 (31)	4,500 (31)	600 (4)	37mL 200mL 400mL 5 gal pail A 5 gal pail B	00-051111-07698-9 00-051111-07700-9 00-051111-07699-6 00-051111-07708-5 00-051111-07707-8	62-2814-1435-9 62-2814-3830-9 62-2814-3530-5 62-2914-8530-8 62-2814-8530-0
DP420 420 (Black)	Tough durable bonds, High impact resistance	2:1	30,000	20 min	2 hr	75 (133)	4,500 (31)	4,500 (31)	1,250 (9)	37mL 200mL 400mL Gal Kit 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-41528-9 00-021200-41530-2 00-021200-41529-6 00-051115-25796-4 00-021200-41532-6 00-021200-41531-9 00-021200-41534-0 00-021200-41533-3	62-2778-1435-6 62-2778-3830-6 62-2778-3530-2 62-2778-7530-8 62-2878-8530-5 62-2778-8530-7 62-2878-9530-4 62-2778-9530-6
DP420 420 (Off-White)	Tough durable bonds, High impact resistance	2:1	30,000	20 min	2 hr	70 (125)	4,500 (31)	4,500 (31)	450 (3)	37mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-82236-0 00-021200-87832-9 00-021200-87833-6 00-021200-82239-1 00-021200-82238-4	62-3280-1435-2 62-3280-3830-2 62-3280-3530-8 62-3380-8530-1 62-3280-8530-3
DP420LH 420LH (Off-White)	Tough durable bonds, Low halogen	2:1	30,000	20 min	2 hr	70 (125)	4,500 (31)	4,500 (31)	1,250 (9)	37mL 200mL 400mL	00-051111-07244-8 00-051111-07697-2 00-051111-07696-5	62-2818-1435-0 62-2818-3830-0 62-2818-3530-6
DP420NS 420NS (Black)	Tough durable bonds, Non-sag	2:1	180,000	20 min	2 hr	60 (107)	4,500 (31)	4,500 (31)	1,250 (9)	37mL 200mL 400mL 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-39285-6 00-021200-39286-3 00-021200-39287-0 00-021200-31309-7 00-021200-56587-8 00-048011-58133-0 00-048011-58132-3	62-3299-1435-2 62-3299-3832-8 62-3299-3532-4 62-3399-8530-1 62-3299-8535-2 62-3399-9530-0 62-3299-9530-2
DP460 460 (Off-White)	Tough durable bonds	2:1	30,000	60 min	4 hr	80 (142)	4,500 (31)	4,500 (31)	700 (5)	37mL 200mL 400mL Qt kit 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-82225-4 00-021200-87830-5 00-021200-87831-2 00-021200-82226-1 00-021200-82228-5 00-021200-82227-8 00-021200-83757-9 00-021200-87186-3	62-3593-1435-8 62-3593-3830-8 62-3593-3530-4 62-3593-6430-4 62-3693-8530-7 62-3593-8530-9 62-3693-9530-6 62-3593-9530-8
DP460NS 460NS (Off-White)	Tough durable bonds, Non-sag	2:1	125,000	60 min	4 hr	70 (125)	4,900 (34)	4,650 (32)	1,350 (9)	37mL 200mL 400mL 5 gal pail A 5 gal pail B	00-021200-43670-3 00-021200-43671-0 00-021200-43672-7 00-021200-43674-1 00-021200-43673-4	62-2792-1435-7 62-2792-3830-7 62-2792-3530-3 62-2892-8530-6 62-2792-8530-8
LSB60 (Gray)	Tough durable bonds, High impact resistance	1:1	30,000	90 min	10 hr	15 (27)	3,400 (23)	4,500 (31)	900 (6)	400mL 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-051115-63411-6 00-051115-63416-1 00-051115-63414-7 00-051115-63418-5 00-051115-63417-8	62-3554-3532-2 62-3654-8532-5 62-3554-8532-7 62-3654-9532-4 62-3554-9532-6
LSB60NS (Gray)	Tough durable bonds, Non-sag, High impact resistance	1:1	180,000	90 min	10 hr	30 (53)	3,800 (26)	4,500 (31)	800 (6)	400mL 5 gal pail A 5 gal pail B	00-051115-63426-0 00-051115-63428-4 00-051115-63427-7	62-3562-3532-5 62-3662-8532-8 62-3562-8532-0
LSB360NS (Green)	Tough durable bonds, Non-sag Extra long work life, Bonds oily metals	1:1	Paste	10 hr	16 hr	30 (53)	4,000 (28)	3,900 (27)	800 (6)	400mL 55 gal drum A 55 gal drum B	00-051111-64291-3 00-051115-64360-6 00-051115-64391-0	62-3560-3530-3 62-3660-9530-5 62-3560-9530-7

Key Product

Adhesives and Sealants

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3M™ Scotch-Weld™ Structural Adhesives (cont.)

Product (Color)	Key Features	Approx. Viscosity at 75°F/24°C (cP)	Cure Conditions		Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)				Size	UPC	Stock #
			Time (min)	Temp. F (C)		-67°F (-55°C)	75°F (24°C)	180°F (82°C)	250°F (121°C)			
3M™ Scotch-Weld™ Heat-Cured Epoxies												
1386 (Cream)	High temperature strength, Impact resistance	150,000	60	350 (177)	10 (18)	3,000 (21)	5,500 (38)	4,500 (31)	2,500 (17)	1 qt	00-021200-19917-2	62-1386-6525-2
1469 (Cream)	High temperature strength, Low viscosity	60,000	120	350 (177)	2 (4)	3,150 (22)	3,700 (26)	3,700 (26)	3,600 (25)	1 qt 5 gal pail	00-021200-19949-3 00-021200-19950-9	62-1469-6525-6 62-1469-8525-4
2214 Hi-Density (Gray)	High temperature strength, Low temp curing	Paste	40	250 (121)	5 (9)	3,000 (21)	4,500 (31)	4,500 (31)	1,700 (12)	6 oz cart. 5 gal pail	00-021200-20813-3 00-021200-20814-0	62-3414-2930-6 62-3414-8530-8
2214 Hi-Temp New Formula (Gray)	High temperature strength, Environmental resistance	Paste	60	250 (121)	2 (4)	2,800 (19)	2,800 (19)	2,800 (19)	2,500 (17)	6 oz cart. 5 gal pail	00-021200-20833-1 00-021200-20835-5	62-3491-2830-6 62-3491-8530-6
2214 Hi-Temp Original (Gray)	High temperature strength, Environmental resistance	Paste	40	250 (121)	2 (4)	2,000 (14)	2,000 (14)	3,000 (21)	2,500 (17)	6 oz cart.	00-021200-20806-5	62-3402-2930-1
221 Non-Metallic Filled (Cream)	High temperature strength, Higher insulation value	Paste	40	250 (121)	7 (12)	3,000 (21)	4,000 (28)	4,500 (31)	1,500 (10)	2 oz tube 6 oz cart.	00-021200-20802-7 00-021200-25496-3	62-3401-0830-7 62-3401-2934-5
* 2214 Regular (Gray)	High temperature strength, Low temp curing	Paste	40	250 (121)	5 (9)	3,000 (21)	4,500 (31)	4,500 (31)	1,500 (10)	6 oz cart. 1 qt 5 gal pail	00-021200-20344-2 00-021200-20345-9 00-021200-23047-3	62-2214-2930-1 62-2214-6530-5 62-2214-8530-3
2290 (Amber)	Low solids liquid coating for metal laminations	60	30	350 (177)	5 (9)	5,000 (34)	5,000 (34)	3,500 (24)	1,200 (8)	Gal cont. 5 gal pail 55 gal drum	00-021200-76225-3 00-021200-76227-7 00-021200-76228-4	62-3847-7530-0 62-3847-8531-7 62-3847-9530-8

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3M™ Scotch-Weld™ Engineered Grade Instant Adhesives

3M™ Scotch-Weld Epoxy Adhesive DP100 Plus is a very flexible, fast-setting, two-part epoxy adhesive that cures clear and colorless. It provides a strong, permanent bond, even under vibration and impact and is flexible when cured, making it a good choice for bonding dissimilar surfaces.



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3M™ Scotch-Weld™ Threadlockers

3M's Threadlocker Adhesives offer a range of products including temporary, permanent and high temperature resistance. These adhesives conform to most industry recognized standards for torque and strength. TL42, TL62, TL71, TL90



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3M™ Scotch-Weld™ Structural Adhesives (cont.)



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Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel Pl (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-20°F (-29°C)	75°F (24°C)	180°F (82°C)			
3M™ Scotch-Weld™ Standard MMA Acrylics												
DP805 (Light Yellow)	Fast strength build, Minimal surface prep	1:1	110,000	3 min	10 min	35 (62)	2,500 (17)	3,500 (24)	2,200 (15)	47mL 200mL	00-021200-83758-6 00-021200-87828-2	62-3288-1435-5 62-3288-3830-5
DP820 (Light Yellow)	Tough durable bond, Minimal surface prep	1:1	55,000	15 min	40 min	20 (36)	3,100 (21)	3,150 (22)	1,900 (13)	47mL 200mL 400mL	00-021200-89347-6 00-021200-89348-3 00-021200-89349-0	62-3277-1435-8 62-3277-3830-8 62-3277-3530-4
DP8405NS 8405NS (Green)	High impact, Adhesion to most plastics	10:1	70,000	5 min	15 min	50 (89)	2,600 (18)	4,100 (28)	900 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-68963-5 00-051115-68964-2 00-051115-68981-9 00-051115-68986-4 00-051115-68980-2 00-051115-68987-1	62-2856-1445-9 62-2856-3630-4 62-2952-7530-9 62-2856-8530-1 62-2952-8530-8 62-2856-9530-0
DP8407NS 8407NS (Gray)	High impact, Adhesion to most plastics	10:1	20,000	7 min	24 min	50 (89)	3,400 (23)	4,500 (31)	1,400 (10)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-076308-86273-2 00-076308-86285-5 00-076308-86366-1 00-076308-86306-7 00-076308-86367-8 00-076308-98878-4	62-2853-1445-6 62-2853-3630-1 62-2952-7530-7 62-2853-8530-8 62-2953-8530-6 62-2853-9530-7
DP8410NS 8410NS (Green)	High impact, Adhesion to most plastics	10:1	70,000	10 min	25 min	50 (89)	3,600 (25)	4,100 (28)	800 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-70994-4 00-051115-70995-1 00-051115-68981-9 00-051115-70997-5 00-051115-68980-2 00-051115-71101-5	62-2860-1445-1 62-2860-3630-6 62-2952-7530-9 62-2860-8530-3 62-2952-8530-8 62-2860-9530-2
DP8425NS 8425NS (Green)	High impact, Adhesion to most plastics	10:1	70,000	25 min	50 min	50 (89)	3,800 (26)	3,700 (26)	800 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-81303-0 00-051115-81302-3 00-051115-68981-9 00-051115-70997-5 00-051115-81414-3 00-051115-81031-6	62-2862-1445-7 62-2862-3630-2 62-2952-7530-9 62-2860-8530-3 62-2962-8530-7 62-2862-9530-8
3M™ Scotch-Weld™ Low Odor Acrylics												
DP810 810 (Black)	Tough durable bond, High impact resistance	1:1	20,000	10 min	20 min	30 (53)	1,200 (8)	3,600 (25)	500 (3)	50mL 200mL 1 gal pail A 1 gal pail B 4.4 gal pail A 4.4 gal pail B	00-021200-49077-4 00-021200-49079-8 00-048011-56712-9 00-048011-56711-2 00-021200-49081-1 00-021200-49080-4	62-2788-1435-5 62-2788-3830-5 62-2888-7530-5 62-2788-7530-7 62-2888-8730-0 62-2788-8730-2
DP810 810 (Tan)	Tough durable bond, High impact resistance	1:1	20,000	10 min	20 min	30 (53)	1,200 (8)	3,600 (25)	500 (3)	50mL 200mL 400mL 4.4 gal pail A 4.4 gal pail B	00-021200-31310-3 00-021200-31311-0 00-021200-31312-7 00-021200-45233-8 00-021200-45230-7	62-3298-1435-4 62-3298-3830-4 62-3298-3530-0 62-3398-8730-9 62-3298-8730-1
DP810NS 810NS (Tan)	Tough durable bond, Non-sag	1:1	95,000	10 min	20 min	20 (36)	1,200 (8)	4,000 (28)	500 (3)	50mL 200mL 400mL	00-021200-49082-8 00-021200-49084-2 00-021200-49083-5	62-2799-1435-2 62-2799-3830-2 62-2799-3530-8
DP8805NS 8805NS (Green)	Low odor, Fast rate of strength build	10:1	80,000	5min	10 min	30 (53)	800 (5)	3,600 (25)	900 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-076308-98433-5 00-076308-98439-7 00-051115-81415-0 00-076308-98440-3 00-051115-81414-3 00-076308-98441-0	62-2852-1446-6 62-2852-3631-1 62-2962-7530-8 62-2852-8531-8 62-2962-8530-7 62-2852-9531-7
DP8810NS 8810NS (Green)	Low odor, Fast rate of strength build	10:1	80,000	10 min	20 min	30 (53)	900 (6)	3,600 (25)	800 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051128-99432-0 00-051128-99431-3 00-051115-81415-0 00-076308-98442-7 00-051115-81414-3 00-076308-98443-4	62-2854-1446-2 62-2852-3631-7 62-2962-7530-8 62-2854-8531-4 62-2962-8530-7 62-2854-9531-3
DP8810NS (Gray)	Low odor, Fast rate of strength build	10:1	80,000	10 min	20 min	30 (53)	900 (6)	3,600 (25)	800 (6)	45mL 490mL	00-076308-86152-0 00-076308-98485-4	62-2858-1450-5 62-2858-3631-8
DP8825NS 8825NS (Green)	Low odor, Fast rate of strength build	10:1	80,000	25 min	50 min	20 (36)	1,000 (7)	3,000 (21)	800 (6)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-81288-0 00-051115-81289-7 00-051115-81415-0 00-051115-81290-3 00-051115-81414-3 00-051115-81291-0	62-2866-1445-8 62-2866-3630-3 62-2962-7530-8 62-2866-8530-0 62-2962-8530-7 62-2866-9530-9

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Adhesives and Sealants



3M™ Scotch-Weld™ Structural Adhesives (cont.)

Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-20°F (-29°C)	75°F (24°C)	150°F (66°C)			
3M™ Scotch-Weld™ Low Surface Energy (LSE) Acrylics												
DP8005 (Black)	Bonds polyolefins and low surface energy materials	10:1	25,000	3 min	3 hr	N/A	875 (6)	2,000 (14)	475 (3)	45mL 490mL	00-051128-99352-1 00-051128-99298-2	62-2779-1445-3 62-2779-3630-8
DP8005 (Off-White)	Bonds polyolefins and low surface energy materials	10:1	25,000	3 min	3 hr	N/A	750 (5)	2,200 (15)	500 (3)	45mL 490mL	00-051128-99349-1 00-051128-99297-5	62-2786-1445-8 62-2786-3630-3
DP8010 8010 (Blue)	Bonds polyolefins and low surface energy materials	10:1	20,000	10 min	1 hr	N/A	2,700 (19)	2,700 (19)	500 (3)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-71600-3 00-051115-71601-0 00-021200-49113-9 00-051115-71669-0 00-021200-49115-3 00-076308-14203-2	62-2863-1445-5 62-2863-3630-0 62-2883-7530-6 62-2863-8530-7 62-2883-8530-5 62-2863-9531-4
DP8010NS 8010NS (Blue)	Bonds polyolefins and low surface energy materials, Non-sag	10:1	65,000	10 min	1 hr	N/A	2,700 (19)	2,700 (19)	500 (3)	45mL 490mL 1 gal pail A 5 gal pail B 5 gal pail A 55 gal drum B	00-051115-81451-8 00-051115-81453-2 00-021200-49113-9 00-051115-81454-9 00-021200-49115-3 00-051115-81461-7	62-2865-1445-0 62-2865-3630-5 62-2883-7530-6 62-2865-8530-2 62-2883-8530-5 62-2865-9530-1

Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-40°F (-40°C)	75°F (24°C)	180°F (82 °C)			
3M™ Scotch-Weld™ Semi-Rigid Urethanes												
DP600 600 (Gray)	Concrete repair, Self-leveling	1:1	6,000	1 min	4 min	20 (36)	3,200 (22)	2,300 (16)	700 (5)	50mL 400mL 8.4 fl oz 5 gal pail A 5 gal pail B	00-021200-56602-8 00-051111-98303-4 00-021200-96596-8 00-021200-96575-3 00-021200-96574-6	62-2649-5030-4 62-2649-3530-5 62-2649-1233-8 62-2749-8535-7 62-2649-8535-9
DP600NS 600NS (Gray)	Concrete repair, Non-sag	1:1	Paste	1 min	4 min	8 (14)	2,700 (19)	2,300 (16)	700 (5)	50mL 400mL	00-021200-56606-6 00-051111-98312-6	62-2652-5030-8 62-2652-3530-9
DP601 601 (Gray)	Rigid, Self-leveling	1:1	6,000	1 min	4 min	20 (36)	3,200 (22)	2,300 (16)	700 (5)	50mL 50 gal drum A 50 gal drum B	00-021200-96410-7 00-021200-96508-1 00-021200-96507-4	62-2649-5031-2 62-2749-9530-7 62-2649-9530-9
DP601NS 601NS (Gray)	Rigid, Non-sag	1:1	Paste	1 min	4 min	8 (14)	2,700 (19)	2,300 (16)	700 (5)	50mL	00-021200-96407-7	62-2652-5031-6
DP605NS 605NS (Off-White)	Semi-rigid, Non-sag	1:1	150,000	5 min	20 min	40 (71)	4,000 (28)	2,000 (14)	600 (4)	50mL 200mL 5 gal pail A 5 gal pail B	00-021200-82252-0 00-021200-87853-4 00-021200-82254-4 00-021200-82253-7	62-3592-1435-0 62-3592-3830-0 62-3692-8530-9 62-3592-8530-1
DP620NS 620NS (Black)	Semi-rigid, Non-sag	1:1	Paste	20 min	4 hr	40 (71)	3,000 (21)	2,500 (17)	500 (3)	50mL 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-96416-9 00-076308-14144-8 00-076308-14135-6 00-076308-14135-5 00-076308-14146-3	62-2645-5030-2 62-2745-8531-4 62-2645-8531-6 62-2745-9531-3 62-2645-9531-5
DP6310NS (Green)	Multi-purpose, Energy absorbing	1:1	Non-sag paste	9 min	45 min	20 (36)	3,500 (24)	3,600 (25)	900 (6)	48.5mL 400mL 5 gal pail A 5 gal pail B 50 gal drum A 50 gal drum B	00-076308-86407-1 00-076308-86398-2 00-076308-86782-9 00-076308-86748-5 00-076308-86783-6 00-076308-86749-2	62-3590-1448-7 62-3590-3630-8 62-3690-8530-3 62-3590-8530-5 62-3690-9530-2 62-3590-9530-4
DP6330NS (Green)	Multi-purpose, Energy absorbing	1:1	Non-sag paste	30 min	2 hr	20 (36)	3,600 (25)	3,600 (25)	1,000 (7)	48.5mL 400mL 5 gal pail A 5 gal pail B 50 gal drum A 50 gal drum B	00-076308-86431-6 00-076308-86433-0 00-076308-86780-5 00-076308-86701-0 00-076308-86781-2 00-076308-86727-0	62-3565-1448-9 62-3565-3630-0 62-3605-8530-1 62-3635-8530-7 62-3605-9530-0 62-3565-9530-6

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3M™ Scotch-Weld™ Structural Adhesives (cont.)



Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-40°F (-40°C)	75°F (24°C)	180°F (82 °C)			
3M™ Scotch-Weld™ Semi-Rigid Urethanes (cont.)												
3532 B/A (Brown)	Multi-purpose, Semi-rigid bonds	1:1	30,000	10 min	90 min	25 (44)	2,500 (17)	2,000 (14)	300 (2)	2 oz kit Qt kit 5 gal pail A 5 gal pail B	00-021200-20878-2 00-021200-20879-9 00-021200-20935-2 00-021200-20881-2	62-3532-0515-6 62-3532-6430-2 62-3632-8516-4 62-3532-8515-8
3535 B/A (Off-White)	Multi-purpose, Semi-rigid bonds	1:1	30,000	3 min	30 min	25 (44)	2,500 (17)	2,000 (14)	300 (2)	2 oz kit Qt kit 5 gal pail A 5 gal pail B	00-021200-20887-4 00-021200-20888-1 00-051111-07486-2 00-051111-07485-5	62-3535-0515-9 62-3535-6430-5 62-3635-8530-8 62-3535-8530-0
3M™ Scotch-Weld™ Flexible Urethanes												
* DP604NS 604NS (Black)	Flexible, Non-sag	1:1	Paste	4 min	20 min	30 (53)	1,400 (10)	600 (4)	300 (2)	50mL 400mL 5 gal pail A 5 gal pail B 55 gal drum A 55 gal drum B	00-021200-96412-1 00-051111-98301-0 00-021200-96462-6 00-021200-96461-9 00-076308-14205-6 00-076308-87087-4	62-2648-5030-6 62-2648-3530-7 62-2748-8530-0 62-2648-8530-2 62-2748-9531-7 62-2648-9531-9
DP640 (Brown)	Tough flexible bonds	1:1	25,000	60 min	8 hr	60 (107)	3,000 (21)	2,000 (14)	400 (3)	50mL 400mL	00-021200-89543-2 00-021200-89544-9	62-3549-1435-0 62-3549-3530-6
3549 (Brown)	Tough flexible bonds	1:1	25,000	60 min	8 hr	60 (107)	3,000 (21)	2,000 (14)	400 (3)	2 oz kit Qt kit 5 gal pail A 5 gal pail B	00-021200-20901-7 00-021200-20902-4 00-021200-20942-0 00-021200-20904-8	62-3549-0501-0 62-3549-6401-7 62-3649-8501-0 62-3549-8501-2
DP5001 5001 (Black)	Flexible, Conveyor belt repair	1:1	100,000	1 min	15 min	N/A	N/A	600 (4)	N/A	400mL	00-051111-98296-9	62-3528-3530-0
DP5106 5106 (Gray)	High strength, Control joint seals	1:1	34,000	4 min	40 min	N/A	N/A	1,100 (8)	N/A	400mL 5 gal pail A 5 gal pail B	00-051111-98297-6 00-021200-96584-5 00-021200-96583-8	62-3527-3530-2 62-3527-9535-4 62-3627-8535-6

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3M™ Scotch-Weld™ Low Surface Energy (LSE) Plastic Bonding Adhesives

3M's Low Surface Energy Structural Acrylic Adhesives bond to low surface energy plastics such as Polypropylene (PP), Polyethylene (HDPE) and most Thermoplastic Polyolefins (TPOs), providing structural adhesive bond strength that causes the plastic material to fail before the adhesive bond. DP8010 Blue



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3M™ Scotch-Weld™ Concrete Repair Adhesives

3M's Concrete Repair Urethane Adhesives repair cracks and patch holes in minutes, providing minimal disruption to your operations. Products are available for both horizontal and vertical surfaces. DP600



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3M™ Scotch-Weld™ PUR Adhesives

Product (Color)	Key Features	Viscosity @250°F (121°C) (cP)	Approx. Open Time at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Shore D	Elongation %	Size	UPC	Stock #
3M™ Scotch-Weld™ PUR Adhesives – Wood Bonders									
EZ250015 (Off-White)	Fast set time	7,000	1.5 min	15 seconds	65	750	1/10 gal 5 gal	00-051115-23545-0 00-051115-23546-7	62-3850-5230-3 62-3850-8530-3
EZ250060 (Off-White)	Medium set time	7,000	2 min	60 seconds	60	675	1/10 gal 5 gal	00-051115-23550-4 00-051115-23551-1	62-3852-5230-9 62-3852-8530-9
EZ250120 (Off-White)	Medium set time, Low viscosity, Thin bond lines	3,000	4 min	120 seconds	60	625	1/10 gal	00-051115-23554-2	62-3853-5230-7
TE015 (Off-White)	Fast set time,	7,000	1.5 min	15 seconds	65	750	1/10 gal 2k 5 gal	00-051115-25156-6 00-076308-14109-7 00-021200-39211-5	62-3464-5238-6 62-3464-6830-9 62-3464-8530-3
TE030 (Off-White)	Fast set time, High viscosity	16,000	1 min	30 seconds	60	725	1/10 gal 5 gal 55 gal drum	00-051115-25157-3 00-021200-82484-5 00-021200-82483-8	62-3876-5238-1 62-3876-8530-8 62-3876-9530-7
* TE100 (Off-White)	Medium set time, Thin bond lines	7,000	2 min	60 seconds	61	675	1/10 gal 5 gal	00-051115-25161-0 00-021200-87244-0	62-3889-5238-4 62-3889-8530-1
TE200 (Off-White)	Medium set time, Low viscosity, Thin bond lines	3,000	4 min	120 seconds	60	625	1/10 gal 2k	00-051115-25164-1 00-048011-53272-1	62-3894-5238-4 62-3894-6839-8

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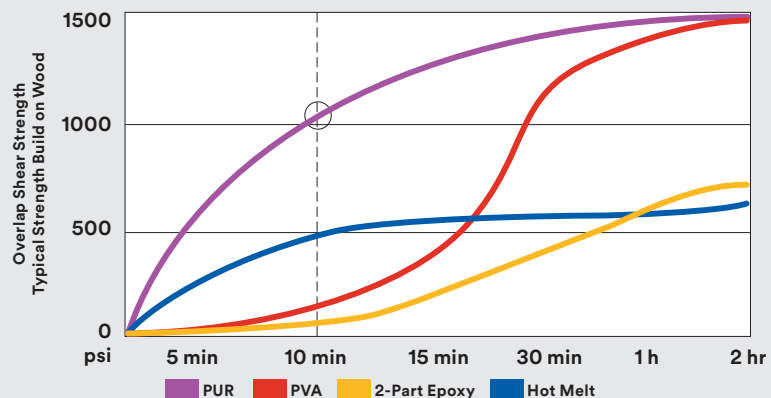


3M™ Scotch-Weld™ PUR Adhesives

PUR Adhesives enhance productivity with fast green strength. Shorter clamp times and reduced need for third-hand mechanical fasteners help speed up your production process without sacrificing ultimate strength.



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3M™ Scotch-Weld™ PUR Adhesives (cont.)



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Product (Color)	Key Features	Viscosity @250°F (121°C) (cP)	Approx. Open Time at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Shore D	Elongation %	Size	UPC	Stock #
3M™ Scotch-Weld™ PUR Adhesives – Plastic Bonders									
EZ250030 (Off-White)	Fast set time, bonds a wide variety of plastics	13,000	2 min	30 sec	50	725	1/10 gal 5 gal	00-051115-23541-2 00-051115-23542-9	62-3851-5230-1 62-3851-8530-1
EZ250150 (Off-White)	Long open time, bonds plastics to metal, glass, wood	9,000	4 min	150 sec	45	700	1/10 gal 2k 5 gal	00-051115-23559-7 00-051115-23562-7 00-051115-23560-3	62-3854-5230-5 62-3854-6839-2 62-3854-8530-5
EZ250200 (Off-White)	Long open time, low viscosity, bonds plastics, wood, and many other material combinations	2,750	3 min	120 sec	30	400	1/10 gal	00-048011-57402-8	62-3891-5230-7
TE031 (Black)	Fast set time, bonds a wide variety of plastics	13,000	2 min	30 sec	50	725	1/10 gal 5 gal	00-051115-25159-7 00-021200-89573-9	62-3887-5238-8 62-3887-8530-5
TE031 (Off-White)	Fast set time, bonds a wide variety of plastics	13,000	2 min	30 sec	50	725	1/10 gal 2k 5 gal	00-051115-25158-0 00-048011-53355-1 00-021200-83695-4	62-3886-5238-0 62-3886-6839-4 62-3886-8530-7
* TE040 (Black)	Fast set time, strong flexible bonds to plastic, wood, aluminum, glass	7,000	2 min	40 sec	35	860	1/10 gal 2k	00-051115-64536-5 00-051115-64430-6	62-3858-5238-9 62-3898-6839-9
TE040 (Off-White)	Fast set time, strong flexible bonds to plastic, wood, aluminum, glass	7,000	2 min	41 sec	35	860	1/10 gal 5 gal	00-051115-25160-3 00-021200-25343-0	62-3898-5238-5 62-3898-8530-2
TS115 HGS (Off-White)	UV indicator, Extrudable/sprayable/roll coatable with fast set time, bonds plastics to metal, glass, wood	16,000	10 min	60 sec	47	600	5 gal	00-051115-64535-8	62-3860-8530-2
TS115 HGS (Off-White)	Extrudable/sprayable/roll coatable with fast set time, bonds plastics to metal, glass, wood	16,000	10 min	60 sec	47	600	1/10 gal 2k 5 gal	00-051115-25163-4 00-048011-53274-5 00-021200-89451-0	62-3892-5238-8 62-3892-6839-2 62-3892-8530-5
TS230 (Black)	Extrudable/sprayable, long open time, bonds plastics to metal, glass, and wood	9,000	4 min	150 sec	45	700	1/10 gal 2k 5 gal	00-051115-25166-5 00-048011-53273-8 00-021200-89583-8	62-3897-5238-7 62-3897-6839-1 62-3897-8530-4
Key Number TS230 (Off-White)	Extrudable/sprayable long open time, bonds plastics to metal, glass, and wood	9,000	4 min	150 sec	45	700	1/10 gal 2k 5 gal 55 gal drum	00-051115-25165-8 00-048011-53271-4 00-021200-83640-4 00-021200-83639-8	62-3870-5238-4 62-3870-6839-8 62-3870-8530-1 62-3870-9530-0
Purge Material 3756	Purge PUR adhesives from bulk dispensing equipment	8250	N/A	N/A	N/A	N/A	5 gal	00-021200-56522-9	62-3733-8530-1

Adhesives and Sealants

Product	Description	UPC	Stock #
3M™ Scotch-Weld™ PUR Applicator/Preheater/Hardware			
Applicator	PUR Easy 250 Applicator, pneumatically dispenses 1/10 gal cartridges, US 120V	00-051115-23563-4	62-9865-9930-6
Preheater	PUR Easy 250 Preheater, preheats up to four 1/10 gal cartridges, 120V, Dual Temp	00-051115-23564-1	62-9865-9935-5
System Accessories for hands-free dispensing	Applicator Bench Mount Bracket Assembly (bracket only) Hot Melt Applicator Foot Pedal Assembly 9277	00-021200-30086-8 00-021200-82278-0	62-9895-9950-1 62-9277-9930-4
Repair Kits and Replacement Parts	Adhesive Applicator Housing/Shroud Assembly Kit Applicator Nozzle Shroud Benchmount Quick Exhaust Assembly Replacement Kit Applicator Air Coupler Filter Kit Applicator Air Supply Line Kit Applicator Air Valve Kit Applicator Swivel Connector Applicator End Cap Applicator Heat Tube Assembly (120V) Kit Applicator Heat Tube (240V) Applicator On/Off Switch Kit Applicator Power Cord Kit (120V) Applicator Wire Stand High Temperature (250°F) PUR Preheater Thermostat/TCO Kit Low Temperature (170°F) PUR Preheater Thermostat/TCO Kit	00-051115-25783-4 00-048011-58320-4 00-021200-31357-8 00-021200-89475-6 00-021200-89479-4 00-048011-57410-3 00-048011-58298-6 00-021200-89476-3 00-021200-89486-2 00-021200-25303-4 00-021200-89482-4 00-021200-89481-7 00-021200-89483-1 00-051115-23619-8 00-051115-23618-1	62-9865-9950-4 62-9845-0029-8 62-9895-9952-7 62-9895-0001-2 62-9895-0005-3 62-9845-0009-0 62-9845-9934-0 62-9895-0003-8 62-9895-0023-6 62-9895-0043-4 62-9895-0024-4 62-9895-0021-0 62-9895-0033-5 62-9865-9938-9 62-9865-9990-0

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3M™ Scotch-Weld™ PUR and Instant Adhesives

Product (Color)	Description	UPC	Stock #
3M™ Scotch-Weld™ PUR Applicator/Preheater/Hardware (cont.)			
Alternate Nozzle System not for use with disposable nozzles	Applicator Main Nozzle Assembly (includes nozzle, tip, tip cap and valve)	00-021200-89514-2	62-9895-0019-4
	Applicator Main Nozzle	00-021200-89515-9	62-9895-0018-6
	Applicator Extension Tip, .072 in orifice	00-021200-89471-8	62-9895-0015-2
	Applicator Tip, .125 in orifice	00-021200-89473-2	62-9895-0017-8
	Applicator Tip, .063 in orifice	00-021200-89472-5	62-9895-0016-0
	Applicator Tip Cap	00-021200-87194-8	62-9773-0014-4
	Applicator Valve Assembly	00-021200-83730-2	62-9773-0012-8

Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range	Time to Handling	Full Cure (Hr)	Size	UPC	Stock #
3M™ Scotch-Weld™ Instant Adhesives – Plastic and Rubber								
PR Gel (Clear)	Fast cure, gel viscosity for maximum gap filling	Gel	-65° to 180°F (-54° to 82°C)	20–60 sec	24	20g tube 300g cart	00-051115-25265-5 00-051115-25282-2	62-6152-0362-7 62-6152-3360-8
PR40 (Clear)	Low viscosity for close fitting plastic/rubber parts	40	-65° to 180°F (-54° to 82°C)	3–20 sec	24	20g bottle 500g bottle	00-051115-25204-4 00-051115-25205-1	62-6147-0360-1 62-6147-3860-7
Key Product	PR100 (Clear)	General purpose, low viscosity plastic bonder	-65° to 180°F (-54° to 82°C)	10–20 sec	24	20g bottle	00-051115-25214-3	62-6164-0360-6
						500g bottle	00-051115-25213-6	62-6164-3860-2
						500g bottle 25/CV	00-051115-25939-5	62-6164-3865-1
PR600 (Clear)	Medium viscosity with some gap filling for plastic/rubbers	600	-65° to 180°F (-54° to 82°C)	4–40 sec	24	50g bottle 500g bottle	00-051115-25241-9 00-051115-25240-2	62-6182-0862-3 62-6182-3860-4
PR1500 (Clear)	General purpose, high viscosity for gap filling	1,500	-65° to 180°F (-54° to 82°C)	20–60 sec	24	2g tube 20g bottle 500g bottle 500g bottle 25/CV	00-051115-25202-0 00-051115-25222-8 00-051115-25221-1 00-076308-14147-9	62-6137-0260-4 62-6165-0360-3 62-6165-3860-9 62-6165-3865-9
3M™ Scotch-Weld™ Instant Adhesives – Plastic and Rubber								
SI Gel (Clear)	Fast cure, gel viscosity for maximum gap filling	Gel	-65° to 180°F (-54° to 82°C)	20–60 sec	24	20g tube 300g cart.	00-051115-25266-2 00-051115-25284-6	62-6163-0362-4 62-6163-3360-5
SI100 (Clear)	Low viscosity for medium gaps	100	-65° to 180°F (-54° to 82°C)	3–20 sec	24	3g tube 20g bottle 500g bottle	00-051115-25290-7 00-051115-25268-6 00-051115-25267-9	62-6176-0363-4 62-6176-0360-0 62-6176-3860-6
SI1500 (Clear)	High viscosity for gap filling	1,500	-65° to 180°F (-54° to 82°C)	5–60 sec	24	50g bottle 500g bottle	00-048011-61662-9 00-051115-25245-7	62-6178-0862-1 62-6178-3860-2
3M™ Scotch-Weld™ Instant Adhesives – Low Odor								
LO100 (Clear)	General purpose, low viscosity with reduced odor and blooming	100	-65° to 180°F (-54° to 82°C)	9–20 sec	24	20g bottle 500g bottle	00-048011-62732-8 00-051115-25188-7	62-6128-0360-1 62-6128-3860-7
LO1000 (Clear)	General purpose, high viscosity with reduced odor and blooming, suitable for minor gap filling	1,000	-65° to 180°F (-54° to 82°C)	20–25 sec	24	20g bottle 500g bottle	00-051111-91664-3 00-048011-62738-0	62-6132-0360-3 62-6132-3860-9
3M™ Scotch-Weld™ Instant Adhesives – General Purpose								
ECI Gel (Clear)	Industrial strength thixotropic gel for maximum gap fill	Gel	-65° to 180°F (-54° to 82°C)	20–60 sec	24	300g cont.	00-048011-62659-8	62-6196-3360-5
EC5 (Clear)	Very low viscosity for close fitting plastic/rubber parts, Wicking grade	5	-65° to 180°F (-54° to 82°C)	10–30 sec	24	20g bottle 500g bottle	00-051115-81285-9 00-051115-81286-6	62-6192-0360-7 62-6192-3860-3
EC40 (Clear)	General purpose, Fast curing	40	-65° to 180°F (-54° to 82°C)	5–30 sec	24	20g bottle 500g bottle	00-048011-62645-1 00-048011-62646-8	62-6190-0360-1 62-6190-3860-7
EC100 (Clear)	General purpose, Fast curing	100	-65° to 180°F (-54° to 82°C)	10–40 sec	24	20g bottle 500g bottle	00-048011-62638-3 00-048011-62640-6	62-6188-0360-5 62-6188-3860-1
EC2500 (Clear)	Higher viscosity for porous materials and minor gap filling, Slower cure for repositionability	2,500	-65° to 180°F (-54° to 82°C)	20–60 sec	24	20g bottle 500g bottle	00-048011-62642-0 00-048011-62636-9	62-6186-0360-9 62-6186-3860-5

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BLEND SUPPLY

3M™ Scotch-Weld™ Instant Adhesives (cont.)



Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range	Time to Handling	Full Cure (Hr)	Size	UPC	Stock #
3M™ Scotch-Weld™ Instant Adhesives – Super Fast								
SF20 (Clear)	Fast cure, Optimum performance on wide range of rubbers and plastics	20	-65° to 180°F (-54° to 82°C)	4–30 sec	24	20g bottle 500g bottle	00-051111-91667-4 00-051115-25790-2	62-6151-0360-3 62-6151-3860-9
SF100 (Clear)	Fast cure, high strength with EPDM and other elastomers	100	-65° to 180°F (-54° to 82°C)	4–30 sec	24	3g tube 20g bottle 500g bottle	00-048011-62630-7 00-048011-62631-4 00-048011-62629-1	62-6174-0363-9 62-6174-0361-3 62-6174-3860-1
3M™ Scotch-Weld™ Instant Adhesives – Rubber Toughened								
RT5000B (Black)	Rubber toughened for impact resistance, High viscosity for minor gap filling	5,000	-65° to 180°F (-54° to 82°C)	30 sec	24	20g bottle 500g bottle	00-051111-91665-0 00-051115-25200-6	62-6135-0360-6 62-6135-3860-2
3M™ Scotch-Weld™ Instant Adhesives – Metal								
MC100 (Clear)	Multi-purpose metal bonder	100	-65° to 180°F (-54° to 82°C)	4–20 sec	24	20g bottle 500g bottle	00-051111-91663-6 00-048011-62634-5	62-6130-0360-7 62-6130-3860-3
3M™ Scotch-Weld™ Instant Adhesives – Engineered Grade								
CA4	Fast setting for a variety of plastics and rubbers	150	-65° to 180°F (-54° to 82°C)	5–40 sec	24	2g tube 1 oz bottle 1 lb. bottle	00-021200-96601-9 00-021200-96600-2 00-021200-96597-5	62-3801-0230-1 62-3801-0330-9 62-3801-3830-5
CA5	Higher viscosity, slower setting version of CA4 for filling gaps, Meets CID A-A-3097, Type II, Class 3	2,000	-65° to 180°F (-54° to 82°C)	12–60 sec	24	1 oz bottle 1 lb. bottle	00-021200-74289-7 00-021200-74288-0	62-3802-0330-7 62-3802-3830-3
CA7	Very fast setting, Excellent metal bonder, Better shock and impact resistance	15-40	-65° to 212°F (-54° to 100°C)	1–30 sec	24	1 oz bottle 1 lb. bottle	00-021200-21061-7 00-021200-21062-4	62-3812-0330-6 62-3812-3830-2
CA8	Rapid setting, Excellent adhesion to metals, plastics and rubbers, Meets CID A-A-3097, Type II, Class 2	70-130	-65° to 180°F (-54° to 82°C)	5–40 sec	24	2g tube 1 oz bottle 1 lb. bottle	00-021200-21065-5 00-021200-21066-2 00-021200-21067-9	62-3815-0130-3 62-3815-0330-9 62-3815-3830-5
CA9	Slower setting for parts alignment, Useful for wire tracking and coil terminating, Meets CID A-A3097, Type II, Class 3	1,000–1,700	-65° to 180°F (-54° to 82°C)	20–70 sec	24	1 oz bottle 1 lb. bottle	00-021200-21068-6 00-021200-21069-3	62-3817-0330-5 62-3817-3830-1
CA40	Very fast setting, Excellent adhesion to many substrates including flexible vinyl and EPDM rubber	20	-65° to 180°F (-54° to 82°C)	3–20 sec	24	1 oz bottle 1 lb. bottle	00-021200-74290-3 00-021200-74291-0	62-3803-0330-5 62-3803-3830-1
CA40H	Higher viscosity version of CA40, Better void filling capabilities	400–600	-65° to 212°F (-54° to 100°C)	–	24	1 oz bottle 1 lb. bottle	00-021200-21073-0 00-021200-21074-7	62-3829-0330-0 62-3829-3830-6
CA50 Gel	High-viscosity, non-sag gel, Less sensitive to acidic surfaces	45,000–85,000	-65° to 212°F (-54° to 100°C)	60–120 sec	24	20g tube 200g cart.	00-021200-82332-9 00-021200-83737-1	62-3872-0330-0 62-3872-3630-0
CA100	High peel and impact strength, shock and heat resistance	2,500–4,500	-65° to 212°F (-54° to 100°C)	20–70 sec	24	1 oz bottle 1 lb. bottle	00-021200-82334-3 00-021200-82335-0	62-3873-0330-8 62-3873-3830-4

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BLEND SUPPLY

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3M™ Scotch-Weld™ Instant Adhesives (cont.)

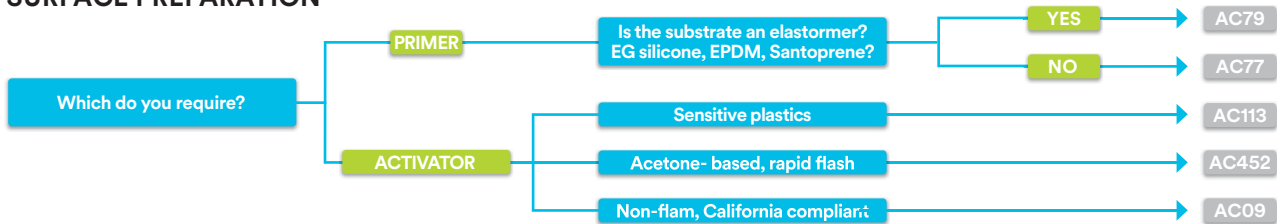
Product (Color)	Key Features	Typical Viscosity (cP)	Time to Handling	Full Cure (Hr)	Size	UPC	Stock #
3M™ Scotch-Weld™ Instant Adhesive Primers & Activators							
AC09	Instant adhesive activator, Non-flammable, solvent-based, California compliant	1	1–5 sec	24	2 fl oz bottle 1L can	00-051111-07795-5 00-051111-07908-9	62-6198-0860-3 62-6198-8361-4
AC77	Instant adhesive primer for bonding of difficult-to-bond plastics such as polyethylene, polypropylene and polyacetal	<3	1–5 sec	24	2 fl oz bottle 4L can	00-048011-62728-1 00-048011-62653-6	62-3907-0860-0 62-3907-7560-9
AC79	Instant adhesive primer for bonding of difficult-to-bond elastomers such as silicone, fluoroelastomer and EPDM, VOC compliant	2	1–5 sec	24	2 fl oz bottle 8 fl oz bottle 4L can	00-051115-31388-2 00-051115-31389-9 00-051115-31390-5	62-3916-0860-1 62-3916-3760-0 62-3916-7560-0
AC113	Instant adhesive general purpose accelerator, Will not attack plastics	<3	1–5 sec	24	2 fl oz bottle 8 fl oz bottle 1L can 4L can	00-048011-62681-9 00-048011-62682-6 00-048011-62683-3 00-048011-62684-0	62-6194-0860-2 62-6194-3760-1 62-6194-6560-2 62-6194-7560-1
AC452	Instant adhesive acetone-based accelerator flashes off rapidly, Excellent adhesion, Overspray may attack some plastics	<2	1–5 sec	24	2 fl oz bottle 8 fl oz bottle 4L can	00-048011-62685-7 00-048011-62686-4 00-048011-62689-5	62-6195-0860-9 62-6195-3760-8 62-6195-7560-8
Surface Activator	Clear, colorless organic-based liquid helps speed curing and prime surfaces, Comes with brush and spray pump	<10	1–5 sec	24	2 fl oz bottle	00-021200-87937-1	62-3804-0830-2

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SURFACE PREPARATION



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3M™ Scotch-Weld™ Plastic and Rubber Instant Adhesives

3M's Engineered Grade Instant Adhesives combine high performance, excellent adhesion and temperature resistance with the speed of instant adhesives – providing you with differentiated capabilities for your most difficult thin bond line applications. CA5, CA40, CA40H, CA50 Gel



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3M™ Scotch-Weld™ Engineered Grade Instant Adhesives

The PR (Plastic & Rubber) series of products bonds to most plastics and rubbers with a range of viscosities that will fit all your application needs. Just a single drop per square inch bonds several thousand pounds of holding power. They provide proven, world record strength with a hold of 8 metric tons. PR40, PR100, PR600, PR1500 and PRGel



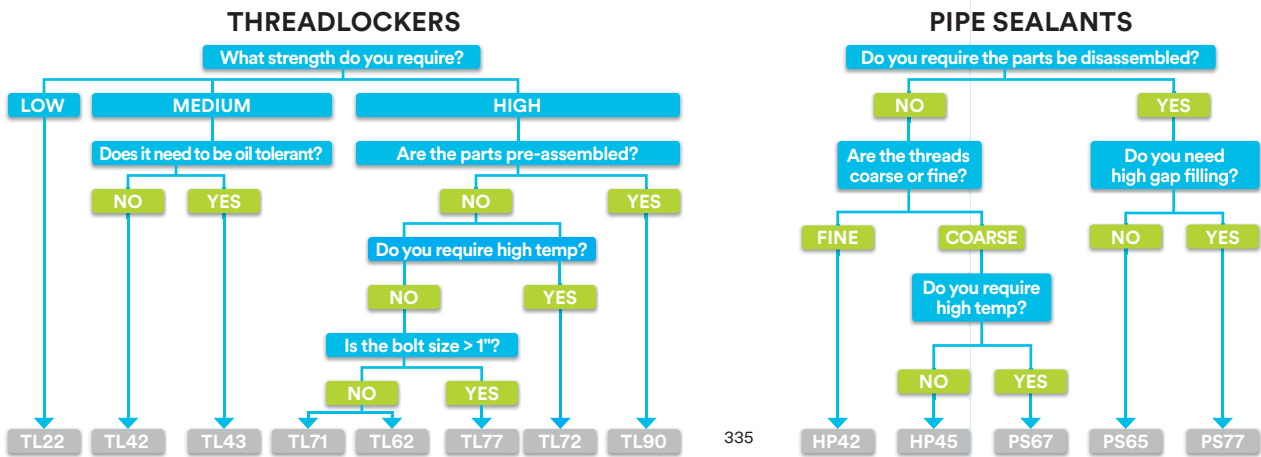
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Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range	Time to Handling	Full Cure (Hr)	Size	UPC	Stock #
3M™ Scotch-Weld™ Anaerobic Adhesives – Threadlockers								
TL22 (Purple)	Screwlock – low removal torque fasteners less than a 1/4" (6mm)	1,200	-65° to 300°F (-54° to 149°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle	00-048011-62601-7 00-048011-62602-4 00-048011-62603-1	62-3493-1060-7 62-3493-5060-3 62-3493-3960-6
TL42 (Blue)	Nutlock – medium strength, general purpose	1,200	-65° to 300°F (-54° to 149°C)	< 30 min	24	1mL pipette 10mL bottle 50mL bottle 250mL bottle 1L bottle	00-048011-62604-8 00-048011-62605-5 00-048011-62606-2 00-048011-62607-9 00-051115-25124-5	62-3494-0160-4 62-3494-1060-5 62-3494-5060-1 62-3494-3960-4 62-3494-8360-2
TL43 (Blue)	Oil tolerant, medium strength, general purpose	3,300	-65° to 300°F (-54° to 149°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-051115-25138-2 00-051115-25139-9 00-051115-25140-5 00-051115-25141-2	62-3428-1060-3 62-3428-5060-9 62-3428-3960-2 62-3428-8360-0
TL62 (Red)	Studlock – high strength with controlled torque tension	1,600	-65° to 300°F (-54° to 149°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-048011-62609-3 00-048011-62610-9 00-048011-62611-6 00-076308-14202-5	62-3495-1060-2 62-3495-5060-8 62-3495-3960-1 62-3495-8361-7
TL71 (Red)	Permanent studlock for bolts and studs up to 1" (25mm)	500	-65° to 300°F (-54° to 149°C)	< 30 min	24	1mL pipette 10mL bottle 50mL bottle 250mL bottle	00-051115-25125-2 00-048011-62612-3 00-048011-62613-0 00-048011-62614-7	62-3496-0160-9 62-3496-1060-0 62-3496-5060-6 62-3496-3960-9
TL72 (Red)	High temperature studlock with gap filling for larger diameter coarse threaded parts	7,000	-65° to 450°F (-54° to 232°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-051115-25133-7 00-051115-25137-5 00-051115-25135-1 00-051115-25136-8	62-3497-1060-8 62-3497-5060-4 62-3497-3961-5 62-3497-8360-5
TL77 (Red)	Heavy duty permanent for fasteners up to 1.5" (38mm) with coarse threads	7,000	-65° to 300°F (-54° to 149°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-051115-25142-9 00-051115-25143-6 00-051115-25144-3 00-076308-14204-9	62-3429-1060-1 62-3429-5060-7 62-3429-3960-0 62-3429-8361-6
TL90 (Green)	Penetrating adhesive for pre-assembled fasteners and porosity sealing of welds	20	-65° to 300°F (-54° to 149°C)	< 30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-048011-62615-4 00-048011-62616-1 00-048011-62617-8 00-051115-25150-4	62-3498-1060-6 62-3498-5060-2 62-3498-3960-5 62-3498-8360-3
3M™ Scotch-Weld™ Anaerobic Adhesives – Pipe Sealants								
HP42 (Brown)	Medium strength sealant for hydraulic and pneumatic fittings with fine threads	400–800	-65° to 300°F (-54° to 149°C)	< 30 min	24	50mL bottle 250mL bottle	00-054007-99630-9 00-054007-99631-6	62-3474-5060-3 62-3474-3950-7
HP45 (Purple)	High pressure sealant for all hydraulic and pneumatic fittings	14,000	-65° to 300°F (-54° to 149°C)	< 30 min	24	50mL bottle 250mL bottle	00-048011-62721-2 00-048011-62722-9	62-3477-5060-6 62-3477-3960-9
PS65 (White)	General purpose for applications requiring easy disassembly	Paste	-65° to 300°F (-54° to 149°C)	2-5 hr	24	50mL tube 250mL tube 1L bottle	00-048011-62711-3 00-048011-62712-0 00-048011-62713-7	62-3701-5067-4 62-3701-3967-7 62-3701-8360-0
PS67 (White)	Fast curing pipe sealant for inactive surfaces such as stainless steel	Paste	-65° to 400°F (-54° to 204°C)	15-30 min	24	50mL tube 250mL tube	00-048011-62714-4 00-048011-62715-1	62-3478-5067-9 62-3478-3967-2
PS77 (Yellow)	Fast curing pipe sealant with medium-high viscosity	18,000	-65° to 400°F (-54° to 204°C)	15-30 min	24	50mL tube 250mL tube	00-054007-99635-4 00-054007-99636-1	62-3707-5067-1 62-3707-3967-4

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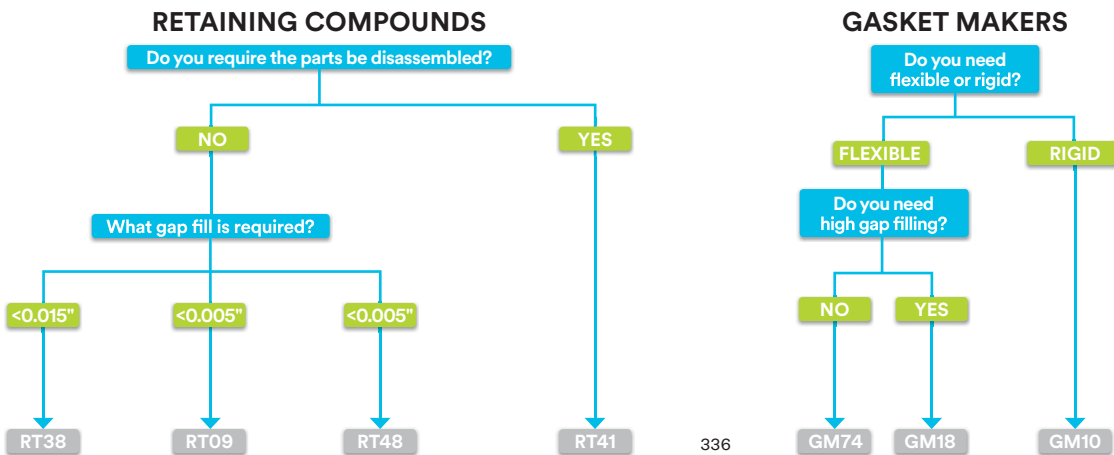
3M™ Scotch-Weld™ Anaerobic Adhesives (cont.)

Product (Color)	Key Features	Typical Viscosity (cP)	Temperature Range	Time to Handling	Full Cure (Hr)	Size	UPC	Stock #
3M™ Scotch-Weld™ Anaerobic Adhesives – Retaining Compounds								
RT09 (Green)	For tight tolerances and press fit augmentation	125	-65° to 300°F (-54° to 149°C)	10–30 min	24	10mL bottle 50mL bottle 250mL bottle 1L bottle	00-048011-62661-1 00-048011-62662-8 00-048011-62663-5 00-051115-31977-8	62-3435-1060-8 62-3435-5060-4 62-3435-3960-7 62-3435-8360-5
RT38 (Green)	Fast setting, high strength for bearings, bushings or sleeves on shafts or in housings	2,500	-65° to 300°F (-54° to 149°C)	10–15 min	24	10mL bottle 50mL bottle 250mL bottle	00-051115-81282-8 00-051115-81283-5 00-051115-81284-2	62-3460-1060-6 62-3460-5060-2 62-3460-3960-5
RT41 (Tan)	Medium strength for cylindrical parts, Easier disassembly for service and bearing re-use	600	-65° to 300°F (-54° to 149°C)	15–20 min	24	250mL bottle	00-048011-62724-3	62-3484-3960-5
RT48	Medium viscosity, high strength, fast curing formulation	600	-65° to 300°F (-54° to 149°C)	15–20 min	24	50mL bottle 250mL bottle	00-054007-99632-3 00-054007-99633-0	62-3480-5060-0 62-3480-3960-4
3M™ Scotch-Weld™ Anaerobic Adhesives – Gasket Makers								
GM10 (Red)	Masking or dressing gaskets in rigid assemblies, can be screen printed, High temperature resistance	Paste	-65° to 400°F (-54° to 204°C)	< 30 min	24	50mL tube	00-048011-62652-9	62-3453-5067-2
GM18 (Red)	Instant flexible seal without a primer on mating aluminum flanges	Paste	-65° to 300°F (-54° to 149°C)	< 30 min	24	300g cart. 50mL tube	00-048011-62660-4 00-048011-62658-1	62-3454-3362-7 62-3454-5067-0
GM74 (Orange)	Form-in-place gasketing product designed for multipurpose applications on rigid metal flanges and surfaces	Paste	-65° to 300°F (-54° to 149°C)	< 30 min	24	50mL bottle, 10/CV	00-054007-99634-7	62-3459-5067-9
3M™ Scotch-Weld™ Anaerobic Adhesives – Activators								
AC649 (Green)	Acetone-based green primer for inactive or very cold surfaces,30-day part life for pre-application, California compliant	<3	N/A	<5 min	24	2 fl oz bottle 8 fl oz bottle 4L can	00-048011-62708-3 00-048011-62709-0 00-048011-62707-6	62-3918-0860-7 62-3918-3760-6 62-3918-7560-6

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3M™ EPX™ Applicators and Nozzles

Product	Replacement Plunger Orders	Static Mixing Nozzle Options								
		37mL (2:1) & 43mL (2:3)	45mL (10:1)	48.5mL (1:1)	50mL (1:1)	200mL (2:1 & 1:1)	400mL (2:1 & 1:1)	490mL (10:1)		
3M™ Scotch-Weld™ EPX™ Plus II Applicator*										
 <p>318</p> <p>Stock #: 62-9170-9931-9 UPC: 0-00-76308-86383-8</p> <p>*Includes 1:1, 2:1 and 10:1 plunger.</p>	1:1 Plunger Stock #: 62-9170-9912-9 UPC: 0-00-76308-86389-0							3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 37mL and 50mL Stock #: 62-9171-9153-8 UPC: 0-00-21200-50008-4	 341 Bulk: 62-9171-9953-1 Bulk: 0-00-51115-81467-9	
									3M™ EPX™ Mixing Nozzle Helical White, 37mL and 50mL Stock #: 62-9178-9150-9 UPC: 0-00-51115-81449-0	 342 Bulk: 62-9178-9950-2 Bulk: 0-00-51115-81467-9
	2:1 Plunger Stock #: 62-9170-9922-8 UPC: 0-00-76308-86390-6								3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Green, 48.5mL Stock #: 62-9154-9148-4 UPC: 0-00-76308-86434-7	 343
									3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 37mL and 50mL Stock #: 62-9171-9153-8 UPC: 0-00-21200-50008-4	 341 Bulk: 62-9171-9953-1 Bulk: 0-00-21200-50009-1
10:1 Plunger Stock #: 62-9160-9911-2 UPC: 0-00-76308-86391-3								3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 37mL and 50mL Stock #: 62-9178-9150-9 UPC: 0-00-51115-81449-0	 342 Bulk: 62-9178-9950-2 Bulk: 0-00-51115-81467-9	
								3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Orange, 45mL Stock #: 62-9154-9136-9 UPC: 0-00-51115-69043-3	 344	
3M™ EPX™ Metal Applicator 50mL										
 <p>319</p> <p>Stock #: 62-9740-9935-0 UPC: 0-00-21200-21789-0</p>	2:1 Plunger Stock #: 62-9744-9930-3 UPC: 0-00-21200-82314-5							3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 37mL and 50mL Stock #: 62-9171-9153-8 UPC: 0-00-21200-50008-4	 341 Bulk: 62-9171-9953-1 Bulk: 0-00-21200-50009-1	
									3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 37mL and 50mL Stock #: 62-9178-9150-9 UPC: 0-00-51115-81449-5	 342 Bulk: 62-9178-9950-2 Bulk: 0-00-51115-81467-9
3M™ EPX™ Pneumatic Applicator 50mL										
 <p>320</p> <p>Stock #: 62-9781-9930-5 UPC: 0-00-21200-83528-5</p>	N/A							3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 37mL and 50mL Stock #: 62-9171-9153-8 UPC: 0-00-21200-50008-4	 341 Bulk: 62-9171-9953-1 Bulk: 0-00-21200-50009-1	
									3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 37mL and 50mL Stock #: 62-9178-9150-9 UPC: 0-00-51115-81449-5	 342 Bulk: 62-9178-9950-2 Bulk: 0-00-51115-81467-9
3M™ Scotch-Weld™ EPX™ Manual Applicator 200mL										
 <p>321</p> <p>Stock #: 62-9136-9930-2 UPC: 0-00-21200-87977-7</p>	2:1 Plunger Stock #: 62-9136-9938-5 UPC: 0-00-21200-87981-4							3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 200mL and 400mL Stock #: 62-9176-9127-1 UPC: 0-00-21200-97331-4	 345	
									3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 200mL and 400mL Stock #: 62-9142-9930-0 UPC: 0-00-21200-87982-1	 346

For low volume applications and take-it-to-the-job convenience, the 3M™ EPX™ Plus II and EPX™ metal manual applicators comfortably dispense any of the 3M™ Scotch-Weld™ Duo-Pak Structural Adhesives. For higher volume applications, select the 200mL manual dispenser, or the 200mL or 400mL pneumatic dispenser. For concrete repair, there are both manual or pneumatic options.

3M™ EPX™ Applicators and Nozzles

Product	Replacement Plunger Orders	37mL (2:1) & 43mL (2:3)	45mL (10:1)	48.5mL (1:1)	50mL (1:1)	200mL (2:1 & 1:1)	400mL (2:1 & 1:1)	490mL (10:1)	Static Mixing Nozzle Options
3M™ EPX™ 200, 400mL Manual Applicator									
Stock #: 62-9148-9930-7 UPC: 0-00-51111-98073-6  322	N/A					■	■	■	3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 200mL and 400mL Stock #: 62-9176-9127-1 UPC: 0-00-21200-97331-4  345 3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 200mL and 400mL Stock #: 62-9142-9930-0 UPC: 0-00-21200-87982-1  346
3M™ EPX™ 490mL Manual Applicator									
Stock #: 62-9182-9930-6 UPC: 0-00-51115-71115-2  323	N/A						■		3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical Orange, 490mL Stock #: 62-9158-9136-0 UPC: 0-00-51115-69042-6  347 3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Green, 490mL Stock #: 62-9184-9490-7 UPC: 0-00-51115-81619-2  348
3M™ Scotch-Weld™ EPX™ Pneumatic Applicator 200mL									
Stock #: 62-9140-9930-4 UPC: 0-00-21200-87978-4  324	N/A					■			3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 200mL and 400mL Stock #: 62-9176-9127-1 UPC: 0-00-21200-97331-4  345 3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 200mL and 400mL Stock #: 62-9142-9930-0 UPC: 0-00-21200-87982-1  346
3M™ EPX™ 400mL Pneumatic Applicator									
Stock #: 62-9145-9930-3 UPC: 0-00-21200-87979-1  325	N/A						■		3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Gold, 200mL and 400mL Stock #: 62-9176-9127-1 UPC: 0-00-21200-97331-4  345 3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical White, 200mL and 400mL Stock #: 62-9142-9930-0 UPC: 0-00-21200-87982-1  346
3M™ EPX™ 490mL Pneumatic Applicator									
Stock #: 62-9152-9930-9 UPC: 0-00-51115-69041-9  326	N/A						■		3M™ Scotch-Weld™ EPX™ Mixing Nozzle Helical Orange, 490mL Stock #: 62-9158-9136-0 UPC: 0-00-51115-69042-6  347 3M™ Scotch-Weld™ EPX™ Mixing Nozzle Square Green, 490mL Stock #: 62-9184-9490-7 UPC: 0-00-51115-81619-2  348
Standard Caulk Gun									
Image not available	N/A								3M™ Concrete Repair 8.4 oz Cartridge Nozzles Stock #: 62-9637-9935-8 UPC: 0-00-48011-53382-7  349

3M™ Scotch-Weld™ One-Part Heat Cured Epoxies require a unique manual or pneumatic dispenser, such as Semco® 250, 350, 850, 950, or equivalent.



3M™ Concrete Repair Products

Fast, Convenient Crack and Spall Repair, Expansion Joints, Custom Threading and Anchoring, and More

3M™ Concrete Repair Products offer a complete line of conveniently packaged and dispensed adhesives/sealants for every job from cracks and joints to spalls and more.

Repairs are long lasting with strong, flexible bonds that resist weathering, expansion and contraction.

Fast setting allows you and your customers to drive on repaired surfaces in as few as five minutes. You can choose non-sag or self-leveling formulations for repairs on both vertical and horizontal surfaces. Non-sag formulation facilitates step and ledge repair.



3M™ Concrete Repair 600 self-leveling flows smoothly into cleaned cracks and gaps and hardens in as little as 5 minutes.



50mL and 12 fl oz duo-pak cartridges, 5-gallon pails and 55 gallon drums are available to meet your production volume requirements. Nozzle automatically and precisely meters, mixes, and dispenses two-part urethane formulation. Apply material precisely where needed to conserve material.



Make fast work of lengthy expansion or control joints and other larger jobs with the heavy-duty manual applicator and 12 fl oz duo-pak cartridges.



3M concrete repair formulations harden to any depth without cracking for custom threading and anchoring.

Product (Color)	Key Features	Mix Ratio (Vol.) B:A	Approx. Viscosity at 75°F (24°C) (cP)	Approx. Mixed Work Life at 75°F (24°C)	Approx. Time to Handling Strength at 75°F (24°C)	Floating Roller Peel PLI (N/cm) at 75°F (24°C)	Overlap Shear: psi (MPa)			Size	UPC	Stock #
							-40°F (-40°C)	75°F (24°C)	180°F (82°C)			
* DP600 600 (Gray)	Concrete repair, Self-leveling	1:1	6,000	1 min	4 min	20 (36)	3,200	2,300	700	50mL	00-021200-56602-8	62-2649-5030-4
							(22)	(16)	(5)	400mL	00-051111-98303-4	62-2649-3530-5
										8.4 fl oz	00-021200-96596-8	62-2649-1233-8
										5 gal pail A	00-021200-96575-3	62-2749-8535-7
			5 gal pail B	00-021200-96574-6	62-2649-8535-9							
DP600NS 600NS (Gray)	Concrete repair, Non-sag	1:1	Paste	1 min	4 min	8 (14)	2,700 (19)	2,300 (16)	700 (5)	50mL	00-021200-56606-6	62-2652-5030-8
										400mL	00-051111-98312-6	62-2652-3530-9
DP5106 (Gray)	Helps relieve stress in large segments of concrete floors.	1:1	34,000	4 min	40 min	N/A	N/A	1,100 (8)	N/A	400mL	00-051111-98297-6	62-3527-3530-2
										5 gal pail A	00-021200-96584-5	62-3527-9535-4
										5 gal pail B	00-021200-96583-8	62-3527-8535-6

Product	Size	Description
Accessories		
Manual Dispenser 98073	400mL	Heavy-duty applicator.
Pneumatic Dispenser 87979	400mL	Applicator for high volume jobs.
Mix Tip – Higher Throughput 97331	400mL	General use tip.
Mix Tip – Longer Reach 87982	400mL	Alternative nozzle with longer reach.
Mixing Nozzle (threaded) 53382	8.4 fl oz	Mixes Concrete Repair 600.

* After Key Products, consider these.

Note: The technical information and data on these pages should be considered representative or typical only and



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3M™ Hot Melt Spray Adhesives



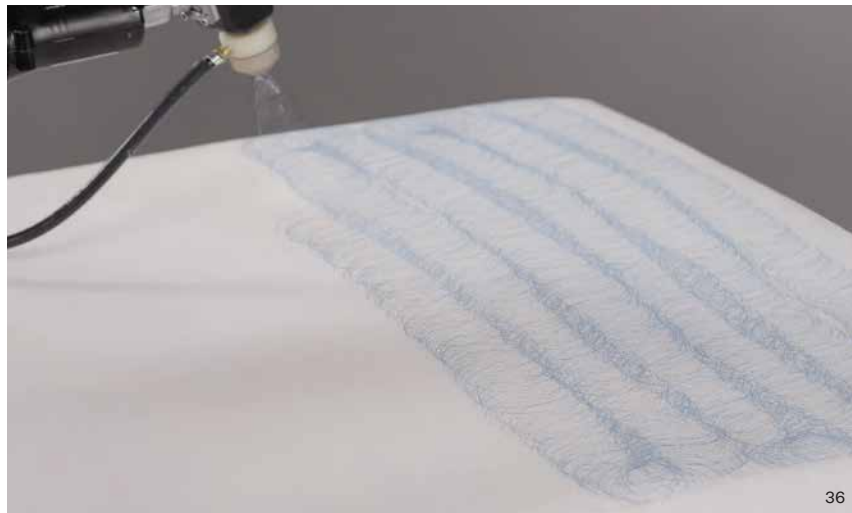
Immediate Bonding of Foam and Other Lightweight Materials

3M™ Hot Melt Spray Adhesive is a fast, effective alternative to solvent-based adhesives for bonding most foams, fabrics, plastics, wood and light-gauge metals. Applications range from furniture cushions to foam inserts, modular office panels to gym floor pads, and more. You simply spray a controlled pattern of 100% solids adhesive right where you want it. Apply to one or both surfaces and bond substrates immediately.

Other features include:

- Up to 10-minute open time for handling convenience and bonding larger areas
- Available in two colors to easily identify spray pattern*
- Bulk format adhesives for ease of use in most delivery systems

*See chart below.



Can bond multiple substrates, large surface areas with 1 or 2 surface applications.



In display cases for jewelry and other retail items, foam is bonded to foam and fabric. Low temperature spray will not damage heat-sensitive substrates.



In carrying case assembly, 3M™ Hot Melt Spray Adhesive bonds foam to foam, plywood, metal or plastic.

Adhesives Characteristics and Suggested Coverage

Product Characteristics	6111	6111 HT/6111 HT Blue	6116
Description	Standard Product	Higher Heat Resistance	Low Viscosity
Color	Tan	Tan/Blue	White
Open Time¹ One Surface (Foam/PVC)	1 min	3 min	2 min
Open Time¹ Two Surface (Foam/Foam)	6 min	8 min	6 min
Heat Resistance²	145°F (63°C)	175°F (79°C)	160°F (71°C)
Peel Adhesion³ (PIW)			
Fir	34.4	25.6	21.4
ABS	12.1	16.5	20.3
Polypropylene	46.3	14.4	16.4
PVC	9.9	16.3	N/A
Cold Rolled Steel	16.5	29.9	20.4
High Density Polyethylene	8.2	2.3	N/A

Typical Coverage	Smooth Surface	Textured Surface
Two Surface Applications	1-2g/ft ²	2-3g/ft ²
One Surface Application	3-5g/ft ²	5-7g/ft ²

1 Bonds were made by spraying adhesive onto 3/4" thick, 2 lb. density polyester urethane foam. Open time will vary depending on substrate.

2 Tested per 3M IATD test method C-3093 using 2 lb. dead load.

3 According to 3M IATD test method C-3012. 180° peel strength was determined at a cross head speed of 2"/min at 73°F (23°C).



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3M™ Hot Melt Adhesives and Applicators

The 3M Systems Approach to Help You Improve Productivity and Lower Costs

3M™ Hot Melt Adhesives and Applicators are advanced hand-held systems to help you improve productivity, lower cost and minimize waste.

Adhesives are 100% solids thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden and reach bond strength in seconds. You can move assemblies immediately to keep production flowing. This helps eliminate clamps, fixturing and drying, and saves time, energy and space.

Each adhesive is designed and precisely manufactured for efficient use in one of the portable 3M™ Hot Melt Applicators. Bonds wood, plastic, foam, fabric, cardboard and more.



120

3M™ Hot Melt Applicator LT with 3M™ Hot Melt Adhesive 3762LM low temperature (265°F/129°C) adhesive effectively bonds heat-sensitive substrates such as styrene foam to itself, corrugated or other surfaces without damaging the foam.



121

For bonding the guide to a drawer bottom, 3M™ Hot Melt Adhesive 3792 provides high delivery rate and long bonding range.



122

For sample and display boards, attach wood flooring, laminates, foams, fabrics or other materials and small products with 3M™ Hot Melt Adhesive 3792.



123

For economical package sealing, 3M™ Hot Melt Adhesive 3762 is a versatile formulation with a bonding range for production speed. Variety of tips for package types.



124

To help with sound dampening on drawer bottoms, use 3M™ Hot Melt Adhesive 3792.



125

3M™ Hot Melt Applicator LT and 3M™ Hot Melt Adhesive 3792LM applied at low temperature (265°F/129°C) make quick work of wetting, gimping, and bonding fabric to wood.



126



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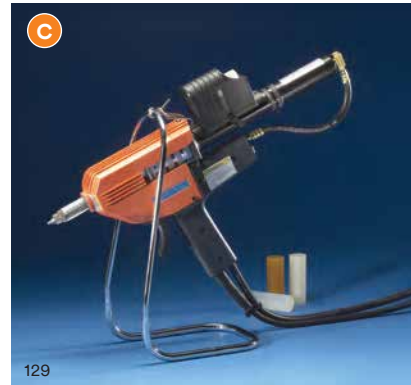
Selecting a 3M™ Hot-Melt Applicator to Fit Your Needs



3M™ Hot Melt Applicator LT. Low-medium volume using low melt adhesive.
UPC# 021200-82245



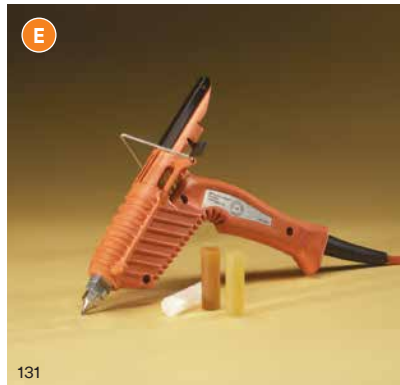
3M™ Hot Melt Applicator LT with Quadrack™ Converter. Medium volume using low melt adhesive.
UPC# 021200-89447



3M™ Pneumatic Hot Melt Applicator PG II LT with Speedloader. High volume using low melt adhesive.
UPC# 021200-89395



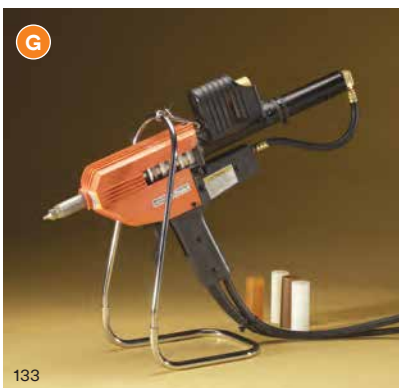
3M™ Hot Melt Applicator AE II LT. Low volume using low melt adhesive.
UPC# 051115-25567



3M™ Hot Melt Applicator TC. Low-medium volume.
UPC# 021200-82244



3M™ Hot Melt Applicator TC with Quadrack™ Converter. Medium volume.
UPC# 021200-89445



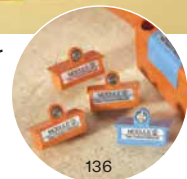
3M™ Pneumatic Hot Melt Applicator PG II with Speedloader. High volume.
UPC# 021200-22033



3M™ Hot Melt Applicator AE II. Low volume.
UPC# 021200-96594



3M™ Hot Melt Applicator EC. Medium volume; variable temperature control.
UPC# 021200-89519



3M™ Hot Melt Applicators

Product	Weight ¹	Output ² (lb/hr)	Temp. ³ °F (°C)	Power (120V)	Adhesive Dia. x L (in)	Features	Warranty (Months)
Low Melt Applicators							
A LT	10.0 oz	2.6	265 (129)	150W	5/8 × 2 TC	For use with low melt adhesives.	12
B LT with Quadrack Converter	13.8 oz	2.6	265 (129)	150W	5/8 × 8 Q	For use with low melt adhesives.	12
C Pneumatic PG II LT with Speedloader	4.3 lb	6.0	265 (129)	500W	1 × 3 PG	Pneumatic high output for low melt adhesives.	12
D AE II LT	20.0 oz	4.0	265 (129)	100W	1/2 × 12 AE	All electric operation for low melt adhesives.	6
Hot Melt Applicators							
E TC	10.0 oz	3.5	385 (196)	150W	5/8 × 2 TC	Easy to use with standard melt adhesives.	12
F TC with Quadrack Converter	13.8 oz	3.5	385 (196)	150W	5/8 × 8 Q	Easy to use with standard melt adhesives.	12
G Pneumatic PG II with Speedloader	4.3 lb	7.5	385 (196)	500W	1 × 3 PG	Pneumatic high output for standard melt adhesives.	12
H AE II	20.0 oz	4.0	400 (204)	100W	1/2 × 10 AE 1/2 × 12 AE	All electric operation for standard melt adhesives.	6
Variable Applicators							
I EC	24.0 oz	5.5	260–450 (127–232)	350W	5/8 × 8 Q	Temperature modules to operate with standard and low melt adhesives.	12

1 – Weight shown is for applicator only; does not include adhesive capacity.

2 – Adhesive output will vary with conditions and the adhesive used. Values are approximate and are based on maximum steady-state flow.

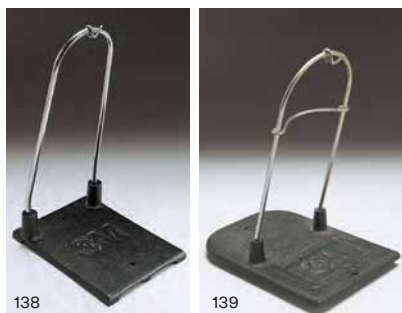
3 – Temperatures shown are nominal control values. Actual temperature will range slightly above and below this value.

Accessories to Improve Your Productivity

Product	Description	UPC	SN
9725	.072" Mini Extension Tip	021200-21786	62-9725-9930-2
9726	"T" Tip Assembly	021200-64542	62-9726-9930-0
9727	"L" Tip with Adapter	021200-64543	62-9727-9930-8
9785	.07" Tapered Aluminum Extension (all applicators)	021200-82554	62-9785-9930-6
9913	2-hole Spreader	021200-21830	62-9913-9930-4
9916	3-hole Spreader	021200-21836	62-9916-9930-7
9917	3-hole 1" Spreader	021200-21837	62-9917-9930-5
9921	.090" Fluted Tip	021200-21840	62-9921-0066-9
9922	.063" Fluted Tip	021200-21841	62-9922-0066-7
9929	High Viscosity Valve (TC, EC, PG II)	021200-64840	62-9929-9930-4
9940	.125" Fluted Tip	021200-22036	62-9940-6920-1
9946	.072" Brass Extension (PG II, PG II LT)	021200-22040	62-9946-6980-2
Heavy-Duty Benchstand	For use with PG II and PG II LT	021200-22039	62-9945-9930-6
	For use with EC, TC and LT	021200-82418	62-9945-9935-5
Bench Mount	Includes bench nozzle assembly (Does not include applicator)	021200-82277	62-9276-9930-6
Bench Nozzle Assembly	For use with bench mounted applicator	021200-21713	62-9233-2781-1
Foot Pedal Assembly	For use with bench mounted applicator	021200-82278	62-9277-9930-4
TC and LT Palm Trigger	For use with Quadrack converter	021200-82701	62-9761-9930-7
Quadrack Converter	To add Quadrack capability to TC and LT applicators	021200-83536	62-9275-9935-7
Valve Assembly Kit	Nozzle and valve replacement for TC, EC, LT	021200-21714	62-9234-9930-5



A general purpose tip (.090) is supplied with each 3M™ Hot Melt Applicator. To increase productivity, optional tips can provide multiple beads, flat ribbons, guided beads for carton sealing and extended reach.



Heavy-Duty Benchstands provide added convenience.



Foot pedal, magazine feeder and benchmount accessories can provide high capacity, hands-free operation for 3M™ Hot Melt PG II and PG II LT Applicators.



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3M™ Hot Melt Adhesives



Product	Color	FDA Listed ¹	UL 94 Listing	Features/Application Ideas
Low Melt Technology: Applied 250–270°F (121–132°C)				
3750LM	Tan	–	N/A	Excellent “hot tack”, fast setting for corrugated, beadboard, repack, recoup. Economical, general purpose. Use with AE II LT applicator only.
3762LM*	Light Amber	Yes	N/A	Excellent “hot tack”, fast setting for corrugated, beadboard, recoupage, repacking chipboard and wood. Economical, general purpose. Use with low melt applicator only.
3776LM	Tan	–	N/A	Bonds variety of plastics, woods and light-gauge metals. Use with low melt applicator only.
3792LM*	Clear	Yes	V2	Clear, multi-purpose for wood, coated paper, polyolefins and other heat-sensitive materials. P.O.P. displays. Use with low melt applicator only.
3798LM*	Light Yellow	Yes	N/A	Removable “gummy glue” for many substrates. Removes easily without residual tack. Use with low melt applicator only.
Hot Melt Technology: Applied 350–385°F (177–196°C)				
3731*	Tan	–	N/A	High heat resistance. Bonds plastics including polyethylene, polypropylene.
3738*	Tan	Yes	V2	High delivery rate and long bonding range. General purpose for foundry sand cores, wood bonding, corrugated, selected plastics and chipboard.
3747	Tan	Yes	N/A	General purpose for wide variety of plastics, wood and lightweight metals.
3748*	Off-White	Yes	V2	Good thermal shock resistance. Non-corrosive to copper for many electronic applications. Bonds polyolefins.
3748 VO	Light Yellow	–	VO	Self-extinguishing version of 3748. Meets UL 1410 requirements.
3750	Tan	–	N/A	Low viscosity for high flow rate, increased production. Good hot tack, quick grab for packaging and woodworking.
3750	Clear	–	N/A	Low viscosity for high flow rate, increased production. Good hot tack, quick grab for packaging and woodworking.
3762	Tan	Yes	V2	Excellent “hot tack”, fast setting for corrugated, beadboard, recoupage, repacking chipboard and wood. Economical, general purpose.
3764*	Clear	Yes	V2	Bonds variety of plastics including polycarbonate, polyethylene, and polypropylene. Flexible at low temperatures.
3779*	Amber	Yes	N/A	High heat resistance. High strength. Good fuel and oil resistance. Electronics.
3789*	Brown	Yes	V2	High performance for plastics. Impact resistant. Bonds vinyl and wood. Good fuel and oil resistance.
3792*	Clear	Yes	V2	Clear, multi-purpose for wood, corrugated, fabric, furniture, upholstery, novelties, and other lightweight materials.
3797	Off-White	Yes	V2	High ball and ring. Low viscosity. Good for electrical potting.
Bulk Only				
3794 Hi Tack PSA	Light Tan	Yes	N/A	Sprayable high tack PSA for bonding plastic, paper, metals, die-cut labels.
6111	Tan	–	N/A	Sprayable 100% solventless adhesive for most foams, fabrics, plastics, particle board and thin metal.
6111HT	Tan, Blue	–	N/A	Similar to 6111 but has higher heat resistance. Available in tan and blue.
6116	Off-White	–	N/A	Similar to 6111 but lower than normal viscosity and mainly used on fabrics.

*Also available in bulk.

1 – Made from components listed as indirect food additives under FDA regulations for adhesives (21 CFR 175.105)

2 – Brookfield Thermosel Viscometer in Centipoise

3 – ASTM E-28-6-7

4 – Highest temperature that the adhesive will support a 2 psi dead load

5 – Canvas to Douglas Fir

6 – Douglas Fir to Douglas Fir

7 – 1/8" semicircular bead, Douglas Fir to Douglas Fir



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EC Temp Control Modules	Viscosity CPS ²	Delivery Time for 1" x 3" Cartridge (sec)	Ball & Ring Melt Point ³ °F (°C)	Heat Resistance ⁴ °F (°C)	Peel Strength PIW5 72°F (22°C)	Shear Strength PSI6 72°F (22°C)	Open Time 1/8" Bead7 (sec)
	4,000 @ 250°F	45	200 (95)	128 (54)	6	475	25
1	4,000 @ 250°F	45	205 (96)	130 (54)	6	480	25
1	8,250 @ 250°F	47	184 (84)	140 (60)	9	600	40
1	10,500 @ 250°F	57	178 (81)	140 (60)	13	350	40
N/A	9,500 @ 250°F	N/A	191 (88)	120 (49)	N/A	N/A	30
5	12,000 @ 375°F	N/A	315 (157)	265 (130)	22	490	30
4	2,875 @ 375°F	35	186 (86)	130 (54)	13	375	50
4	4,100 @ 375°F	45	220 (104)	145 (63)	20	430	45
4	5,000 @ 375°F	65	292 (144)	175 (79)	18	250	45
4	5,000 @ 375°F	65	305 (152)	175 (79)	15	275	30
N/A	1,900 @ 375°F	30-40	200 (93)	125 (52)	6	500	N/A
N/A	4,800 @ 375°F	35-45	178 (81)	135 (57)	12	250	N/A
3	1,870 @ 375°F	30	201 (94)	130 (54)	7	545	35
4	6,000 @ 375°F	55	190 (88)	140 (60)	14	390	40
5	7,000 @ 375°F	75	325 (163)	300 (149)	18	700	25
5	5,200 @ 375°F	70	270 (132)	220 (104)	16	570	50
4	5,000 @ 375°F	45	179 (81)	140 (60)	13	250	50
N/A	2,650 @ 375°F	55	304 (151)	170 (77)	10	350	30
N/A	15,000 @ 325°F	N/A	224 (107)	120 (49)	16	N/A	> 60
N/A	3,000-5,000 @ 375°F	N/A	224 (107)	145 (63)	34	N/A	1 surface: 60 2 surface: 360
N/A	2,500-4,500 @ 375°F	N/A	284 (140)	175 (79)	26	N/A	1 surface: 180 2 surface: 480
N/A	1,300 @ 375°F	N/A	199 (93)	160 (69)	20	N/A	1 surface: 120 2 surface: 300

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Solvent and Water Based Adhesives

Unite Performance, Productivity and Sustainability

3M™ Solvent and Water Based Adhesives start with the customer. Their process, their requirements and their wishes. Then the 3M team of industry experts, in conjunction with our comprehensive technology portfolio, offers customers versatility, efficiency and confidence to answer their “what if?”



Performance

Find the RIGHT product for your assembly with the RIGHT questions:

- What substrates are being bonded?
- What are the issues with your current product?
- Are there any environmental Health and Safety requirements?
- Are there specific product attributes needed?
- Are there specific manufacturing requirements?
- What is the size of the substrate being sprayed?

Sustainability

Low Emissions. High Standards.



Going “green” does not mean that you have to give up on performance. For 40 years our engineers have been developing water-based, low VOC and GREENGUARD™ Certified adhesives that have been used in the most demanding applications.

**So, are you ready to go “green?”
We’re ready to take you there.**



Productivity

Our goal is to make your business as efficient and effective as possible. How the adhesive gets to your assembly is equally as important as the adhesive itself. We work with you to integrate the best delivery system for your process.

Cylinders

- Self-contained and pressurized
- Portable
- Minimal equipment investment
- Low maintenance
- Optimized spray pattern cuts waste and maximizes coverage



Aerosols

- Convenient for smaller jobs or multiple stations
- Easy to use and no equipment



Bulk

- Cost effective




Multipurpose Adhesives – Solvent and Water Based



Insulation, Light Fabrics, Cardboard and Other Light Duty Bonding

Those working with HVAC, General Industrial, Signage, Exhibit/P.O.P. and packaging can effectively bond insulation, light fabrics, cardboard and paper with these versatile adhesives.

- Insulation attachment (polystyrene*, fiber glass, foam, etc.)
- General assembly
- Temporary holding (third hand)
- P.O.P. displays
- Carton sealing, palletizing and label attachment

*Not all products are compatible with polystyrene

MULTI-PURPOSE – Solvent Based Adhesives		
Product	Requirement	Size Availability
70	FAST TACKING	
77	Low soak in, mist spray	
74NF	Non-flammable	

MULTI-PURPOSE – Water Based Adhesives		
Product	Requirement	Size Availability
1000NF	ONE-SIDED BONDING	
49	Long open time, long tack time	
100NF	Immediate bonding	



3M multipurpose adhesives are commonly used for installation of shoddy material, venting insulation and other foams and fabrics. Our product line offers the most versatility for adhesive delivery. 3M™ Super 77™ Multipurpose Spray Adhesive, for example, can be sprayed from bulk containers, cylinders or aerosol cans.



When thinking insulation, don't stop at heating and ventilation. In this application, our adhesives can be used for installation of foam for acoustical soundproofing.



The variety of applications for these multi-purpose adhesives is nearly endless. From adhering pool table felt, to building architectural models, and even bonding protective materials like dense foams into electronics, musical instrument or sensitive equipment cases. 3M has a spray adhesive solution to fit customers' needs.



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Woodworking and Large Surface Lamination – Solvent and Water Based



Wood, Metal and Rubber Flooring

Woodworking, transportation, construction, and general industrial markets can effectively bond metals, wood, rubber, carpet and flooring (vinyl tiles) with this line of adhesives. Some applications include transportation flooring and carpet, store fixtures and furniture.

- High pressure laminate (HPL)
 - Countertops
 - Furniture
 - Display fixtures
- Edge banding
 - Specialty vehicle flooring
 - Wood furniture
 - Trade show displays



Marine and specialty vehicle applications, like installing carpet, rubber or synthetic flooring, are perfect for 3M sprayable adhesives. Our quick tack, low VOC and cylinder delivery are common benefits in this market.

HEAVY DUTY – Solvent Based Adhesives

Product	Requirement	Size Availability
94 CA	FAST TACKING, POSTFORMABLE	
90	High strength	
92	High temperature resistance	
94 ET	Longer open time, more aggressive tack	
98 NF	Non-flammable	
5	Very high temperature resistance	
1099	Plasticizer resistance, harsh environments	



Consider trade show exhibits and store fixtures that are often updated several times a year. 3M's adhesive line offers very low cost per square foot bonded for applications where our customers value total applied cost.

HEAVY-DUTY – Water Based Adhesives

Product	Requirement	Size Availability
30NF	HIGH STRENGTH	
2000NF	Faster initial strength	
1000NF	One surface bonding, fast assembly, plasticizer resistance	



3M™ Hi-Strength 90 Spray Adhesive has a long reputation of holding strong in critical applications like this edge band that are postformable. Postforming is where the laminate is heated and bent as much as 360° around a radius.



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Foam and Fabric Adhesives – Solvent and Water Based



Upholstery and Furniture

Users in the furniture manufacturing, upholstery, or transportation industry can rely on these adhesives to permanently bond open cell foam, closed cell foam and fabrics in a variety applications.

- Upholstered furniture and seating
- Headliners
- Office partitions
- General foam bonding



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Foam and fabric applications can be very challenging. From soft bond lines to tight radiuses, our lineup can meet the demand. The 3M portfolio of water and solvent based adhesives truly give the customer “flexibility.”

FOAM & FABRIC – Solvent Based Adhesives			
Product	Requirement	Size Availability	
Key Product 100NF	SOFT BOND LINES		
	74NF	Non-flammable	
	77	Low soak in, mist spray	

FOAM & FABRIC – Water Based Adhesives			
Product	Requirement	Size Availability	
Key Product 100NF	HIGH COVERAGE		
	100NF + Activator	Faster initial strength	
	1000NF	One surface bonding, higher heat resistance	



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Aerosol adhesives provide either web or mist spray patterns with higher solid content than our competitors. This combination allows 3M adhesives to sit on the surface versus soaking in. More adhesive on the surface results in less adhesive usage and a better bond for the customer.



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These solvent and water based adhesives hold lightweight materials in other assembly methods.



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High Performance Specialty Adhesives – Solvent and Water Based



Rubber and Plastic

Industrial, Automotive, and Military professionals can rely on these adhesives to effectively bond rubber, plastics and specialty composites.

- Sealing and gasketing
- Chemical resistance
- Unique environments
 - Harsh environments
 - MIL specs
 - Chemical resistance



In washing machine repair, 3M™ Neoprene High Performance Rubber and Gasket Adhesive 1300 bonds with high immediate strength and seals the doughnut ring seal in the outer tub.

SPECIALTY – Rubber and Gasket Adhesives		
Product	Requirement	Size Availability
1300	NEOPRENE OR SBR BONDING	
1300L	Sprayable, low viscosity	
847	Vinyl bonding, plasticizer resistant	
4799	EPDM bonding	
80	Aerosol	



With excellent resistance to fuel and oil, 3M™ Nitrile High Performance Rubber and Gasket Adhesive 847 bonds and seals chemical drum gaskets in place.

SPECIALTY – Plastic Adhesives		
Product	Requirement	Size Availability
1099	RESISTS WATER, OIL AND PLASTICIZER	
1099L	Sprayable, low viscosity	
4693	Polyolefin bonding	
2262	Clear drying	
90	Aerosol	



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3M™ Cleaners and Lubricants

Convenience and a Fistful of Work Power for Maintenance and Production

In thousands of factories and plants, these aerosol chemicals are proven daily to save time and effort in maintenance and production. Lubricating, cleaning, inhibiting rust, and other tough jobs become finger-touch easy.

Compact container fits in a tool box to go readily to any job site and can help you reduce storage space and cost. With targeted application you get more usable product for your money.

3M aerosol chemicals contain no methylene chloride, chlorofluorocarbons (CFCs) or 1,1,1-trichloroethane (methyl chloroform).



Adhesives and Sealants



3M™ Silicone Spray Low VOC 60% lubricates cutting tools and tables. Fast, easy application helps prevent buildup of adhesive, wax, inks and paints. Won't stain or become gummy.



For fast, easy cleanup of gears, 3M™ Industrial Citrus Base Cleaner helps soften and loosen grease, oil and grime. After using this heavy-duty degreaser/cleaner, just wipe away with a shop towel.



3M™ Adhesive Remover removes adhesive without damaging surface underneath.

MAINTENANCE AND CLEANING						
Product	Key Characteristics	Available Format	Color	Application Method	Spray Pattern	VOC Content
Adhesive Remover	Citrus based. Fast acting. No residue left behind.	1 gal, 5 gal, 52 gal	Pale Yellow	Brush/Roll/Spray	Mist	840g/L
		5 oz Aerosol	Pale Yellow	Spray	Mist	100%
		18.5 oz Aerosol	Pale Yellow	Spray	Mist	100%
		Mini Cylinder	Pale Yellow	Spray	Mist	800g/L
Adhesive Remover – Low VOC <20% Clear	Extended dwell time. No residual film. Meets CARB/OTC VOC Requirements. Helps contribute to LEED® credits.	Aerosol	Clear	Spray	Mist	15%
Industrial Citrus Base Cleaner	Citrus based. Non-corrosive. Cleans oil, grease, tar and grime.	Aerosol	Transparent	Spray	Mist	91%
Silicone Spray 60% VOC	Excellent lubricant. Fast drying. Long lasting and non-staining.	Aerosol	Clear	Spray	Mist	60%
5-Way Penetrant	Drives out moisture. Frees rusted bolts. Inhibits rust – lubricates, demoisturizes, inhibits corrosion, cleans and penetrates.	Aerosol	Amber			
Silicone Lubricant	Excellent lubricant. Fast Drying. Long-lasting and non-staining.	Aerosol	Clear			



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3M™ Cylinder Spray Adhesives

Efficient, Portable and Easy to Use

3M Cylinder Spray Adhesives have benefits over more traditional spray methods. Minimal startup costs, reduced downtime, simple hose and applicator setup make cylinders an obvious choice.

Whether your priorities are improving speed of application, making spraying easier or reducing capital equipment maintenance and other costs, 3M Cylinder Spray Adhesives get you there.

Advantages and benefits:

- Very efficient speed of application and reduction of overspray
- Convenient, portable and easy to use delivery system
- Maintenance free and very low equipment costs

Other benefits include:

- More efficient spraying over large surface areas or multiple parts means virtually all adhesive is used and very little is wasted
- Easy to learn, use and train new employees to spray
- Portable for easy transition and setup for multiple stations or field work

Key features include:

- High coverage
- Various spray patterns
- Non-flammable adhesives
- Greenguard™ Certified
- Range of open time (worklife)



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Spray patterns from 1–18+” are achievable using 3M™ Cylinder Spray Adhesives and various spray tips.

Where to Start

Product Selection

The lead products for 3M™ Cylinder Adhesives are:

- 3M™ Postforming 94 CA Cylinder Spray Adhesive
- 3M™ Hi-Strength 94 ET Cylinder Spray Adhesive
- 3M™ Holdfast 70 Cylinder Spray Adhesive

The majority of applications can be done with these three cylinder products.



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3M™ Postforming 94 CA Cylinder Spray Adhesive is a low telegraphing that dries quickly to reach postformable strength in 1–5 minutes. A 1–15 minute open time provides flexibility in assembly speed. 3M™ Hi-Strength 94 ET Cylinder Spray Adhesive offers all the benefits of 3M™ Postforming 94 CA Cylinder Spray Adhesive, but delivers a higher tack and increased bonding range.



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For fa and b 3M™ I Bond: and rr



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Save Yourself the Hassle of Inefficient Spraying

Most common applications:

- High pressure laminate
- Foam/paper core steel door
- Upholstery
- Metal lamination
- Insulation bonding

Where to find these applications:

- Cabinet shops
- Elevator interiors
- Countertop shops
- Exhibit manufacturing
- Fixture/display manufacturing
- Office furniture
- Theatre/production sets
- Acoustic panel/partition

Key Questions

Asking the right questions related to the application will help you arrive at an adhesive selection quickly and painlessly.

Use A.S.P.E.C.

- What is the **APPLICATION** you are currently using the adhesive for?
- What **SUBSTRATES** does the adhesive need to bond too?
- Are there special **PROCESS** details the adhesive needs to accommodate? Such as high temperatures or VOC regulations?

- What kinds of **END USE** stress or environment will the bond be subject to? (e.g. boat carpet and saltwater conditions or exterior applications).
- How do you determine the **VALUE** beyond simply the **COST** of a product? (e.g. Improved coverage, reduced flammability or speed of application).

3M™ Cylinder Spray Adhesive Quick Reference Guide

Product	Application	Solids (%)	Solids - Bulk (%)	VOCs (g/L)	Open Time (min)	Spray Pattern	Spray Applicator	Recommended Tips
MULTI-PURPOSE								
60 CA	General Purpose	43	42	>80	2-60	Web	Applicator	9501, 6501
70	Construction, Marine, RV, Polystyrene	21	41	544	1-60	Web	Applicator	QSS tip
77	Multi-Purpose	27	36	534	1-30	Mist	Applicator	250050, 650050
HEAVY DUTY								
90	Laminating	13	23	571	1-15	Web	Applicator	9501, 6501, 250050
92	Laminating	23	34	654	1-20	Web	Applicator	9501, 6501, 250050
94 CA	Laminating	28	28	79	1-15	Pebble	Applicator H	4001, 6501
94 ET	Laminating	28	34	<80	1-60	Pebble	Applicator H	9501, 6501, 4001
98NF	Laminating	20	25	254	1-60	Web	Applicator	9501, 6501, 4001
FOAM & FABRIC								
74	Foam Bonding	22	36	563	1-15	Web	Applicator	9501, 6501
74NF	Foam Bonding	22	28	248	1-60	Web	Applicator	9501, 6501
SPECIALTY								
78 ET	Polystyrene	17	31	570	1-60	Web	Applicator	9501, 6501



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3M™ Cylinder Spray Adhesives do not atomize spray patterns with added airline. This means you get consistent even spray patterns, potentially saving rework and cleanup.



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Consistent spray patterns and portable cylinders mean you can realize big improvements in efficiency and save time and labor costs.

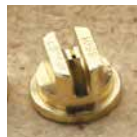
3M™ Cylinder Spray Adhesive Equipment and Accessories



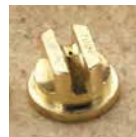
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9501



6501



4001



QSS



T-Fitting



Hose Swivel

Spray Tip	Angle	Spray Pattern Width
9501	95°	Wide
6501	65°	Medium
4001	40°	Narrow
QSS*	-	Very Wide

2500
6500

*For 3l



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Solvent and Water Based Adhesives



Product	Available Format	Solids Weight Percent (Approx.)	Key Characteristics
MULTI-PURPOSE			
Multi-Purpose 27	Aerosol	21%	Fast tack. Lightweight applications. Mist spray pattern.
General Purpose 60 CA	5 gal, 54 gal	43%	High solids for increased coverage. High tack general purpose adhesive.
	Large, Int and Jumbo Cylinder	42%	
HoldFast 70	5 gal, 52 gal	26%	Extremely versatile and very fast tacking. Unique wide web spray pattern with heavy body and low soak-in. Bonds polystyrene without degrading surface.
	Large, Int and Jumbo Cylinder	21%	
Super 77™	Aerosol	25%	Low soak-in for long lasting bond. High coverage and aggressive tack. Bonds quickly in 15 seconds.
	5 gal, 52 gal	36%	
	Large Cylinder	27%	
Super 77™ CA Multi-Purpose (Low VOC)	Aerosol	19%	Aggressive tack. Quick bonding. Long bonding range.
Fastbond™ Insulation Adhesive 49	5 gal box, 5 gal, 52 gal, 100 gal, 255 gal	55%	Fast tacking, high performance, pressure sensitive adhesive for lightweight materials. Low VOC and GREENGUARD® Certified. UL MAGW2 component recognition.
HEAVY DUTY			
Neoprene Contact 5	5 gal, 53 gal	19%	High performance contact adhesive. Sprayable. Fast drying.
Neoprene Contact 10	1 qt, 1 gal, 5 gal, 54 gal	23%	Brushable and rollable with higher coverage. Meets requirements of MMM-A-121, MMM-A-130B and A-A-1936A.
Heavy Duty 20	Aerosol	17%	Fast grab. Variable width spray pattern. Forms strong bonds to a variety of substrates.
Hi-Strength 90	5 gal, 52 gal	23%	High strength. High temperature resistance.
	Large, Int and Jumbo Cylinder	13%	
	Aerosol	13%	
Hi-Strength 90 CA (Low VOC)	Aerosol	23%	High strength.
Hi-Strength 92	5 gal, 54 gal	34%	High strength. High temperature resistance. Versatile, high-tack adhesive.
	Large, Int and Jumbo Cylinder	23%	
Hi-Strength 94 ET (Low VOC)	5 gal, 54 gal	25%	Bonds many laminates, woods, and particle board. Long open time, low VOC. SCAQMD Rule 1168 compliance; helps contribute to LEED® Credits.
	Large, Int and Jumbo Cylinder	25%	
	Aerosol	21%	
Hi-Strength Postforming 94 CA (Low VOC)	5 gal, 54 gal	34%	High solids for increased coverage. Unique non-telegraphing spray pattern with postformable strength. Low VOC, SCAQMD 1168 and LEED® Compliant.
	Large, Int and Jumbo Cylinder	28%	
Hi-Strength 98NF	5 gal, 54 gal	24%	Non-flammable, fast tack adhesive. High temperature resistance. Versatile, high-tack adhesive.
	Mini, Large, Int and Jumbo Cylinder	21%	
Fastbond™ Contact Adhesive 30NF	1 qt, 1 gal, 5 gal, 52 gal, 270 gal	49%	Non-flammable water-based contact adhesive. Extremely high strength, high temperature resistant. Meets MIL-A-24179A, Type I, GREENGUARD® Certified, SCAQMD 1168, LEED® Compliant.
Fastbond™ Contact Adhesive 30H	52 gal, 270 gal	48%	Long bonding range with high immediate bond strength. Economical high coverage. Low mist version of 30NF.
Fastbond™ 2000NF	5 gal, 50 gal, 270 gal	49%	Water dispersed, activated adhesive. Immediate bonding and handling strength without forced drying. GREENGUARD® Certified.
FOAM & FABRIC			
Foam & Fabric 24	Aerosol	17%	Aggressive tack. Foam-tearing strength. Variable width lace spray pattern.
Foam Fast 74	Aerosol	22%	Extremely fast tack. Soft non-dimpling glue line. Immediate foam tearing strength.
	52 gal	36%	
	Large, Int and Jumbo Cylinder	22%	
Foam Fast 74 CA (Low VOC)	Aerosol	23%	Extremely fast tack. Soft non-dimpling glue line. Immediate foam tearing strength.
Foam Fast 74NF	Mini, Large, Int and Jumbo Cylinder	24%	Non-flammable. Fast tack with foam tearing strength. Soft non-dimpling bond line.
Fastbond™ Foam Adhesive 100NF	1 gal, 5 gal, 52 gal, 100 gal, 255 gal	47%	One-part, fast setting – foam and fabric adhesive. GREENGUARD® Certified. Can be activated for immediate bonding.



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	Adhesive Strength	Color	Application Method	Bonding Range (Two Surfaces)	Flammability	Heat Resistance (SAFT)	Spray Pattern	VOC Content
	Low	Clear	Spray	15 sec–10 min	Flammable	140°F	Mist	59%
	Medium	Clear	Brush/Roll/Spray	1–60 min	Flammable	170°F	Pebble	79g/L 73g/L
	Medium	Clear	Brush/Roll/Spray	1–60 min	Flammable	190°F	Web	562g/L
	Low	Clear	Spray	15 sec–15 min	Flammable	150°F	Mist	54%
Brush/Roll/Spray			504g/L					
Spray			535g/L					
	Low	Clear	Spray	15 sec–30 min	Flammable	205°F	Mist	<25%
	Low	Clear	Brush/Roll/Spray	5 min–8 hr	Non-flammable	–	Mist	2g/L
	High	Light Yellow	Spray	10–60 min	Flammable	300°F	Web	687g/L
	High	Light Yellow	Brush/Roll	10–60 min	Flammable	300°F	Web	589g/L
	High	Clear	Spray	1–30 min	Flammable	210°F	Web	52%
	High	Clear	Brush/Roll/Spray	1–10 min	Flammable	250°F	Web	356g/L
Spray			586g/L					
Spray			54%					
	High	Clear	Spray	1–30 min	Flammable	200°F	Web	<25%
	High	Clear/Red	Spray	1–20 min	Flammable	250+°F	Web	577g/L
	High	Clear/Red	Spray	1–60 min	Flammable	210°F	Pebble	<80g/L
Clear/Red		Brush/Roll/Spray	<80g/L					
Clear		Spray	<20					
	High	Clear/Red	Brush/Roll/Spray	1–15 min	Flammable	210°F	Pebble	79g/L
Spray			79g/L					
	High	Red/Clear	Spray	10–60 min	Non-flammable	240°F	Web	935g/L 907g/L
	High	Neutral/Green	Brush/Roll/Spray	30 min–4 hr	Non-flammable	300°F	Mist	37g/L
	High	Green	Brush/Roll/Spray	30 min–4 hr	Non-flammable	300°F	Mist	37g/L
	High	Blue/Light Orange/Neutral	Co-Spray	2 min–2 hr	Non-flammable	300°F	Mist	37g/L
	Medium	Orange	Spray	30 sec–30 min	Flammable	170°F	Web	53%
	Medium	Clear/Orange	Spray	30 sec–15 min	Flammable	170°F	Web	<55%
Brush/Roll/Spray			352g/L					
			563g/L					
	Medium	Clear/Orange	Spray	30 sec–15 min	Flammable	200°F	Web	<25%
	Medium	Red/Clear	Spray	10–60 min	Non-flammable	210°F	Web	48g/L
	Medium	Neutral/Lavender	Spray	1–20 min	Non-flammable	–	Mist	0g/L



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Solvent and Water Based Adhesives



Product	Available Format	Solids Weight Percent (Approx.)	Key Characteristics
SPECIALTY			
Pressure Sensitive 72	Aerosol	15%	Permanently tacky and repositionable. Long open time. Variable width lace spray pattern.
Repositionable 75	Aerosol	9%	Adheres in seconds. Extra long tack range. Repositionable.
Hi-Tack 76	Aerosol	13.5%	Fast tacking. One surface bonds. Variable width lace spray pattern.
Polystyrene 78	5 gal	19%	Bonds polystyrene with no surface degradation. Fast grabbing and fast drying. Uniform spray pattern for fast and easy application.
	Aerosol		
Polystyrene 78ET	Large, Int and Jumbo Cylinder	17%	Bonds polystyrene with no surface degradation. Extended tack time for long working time. Uniform spray pattern for fast and easy application.
Hi-Temp Polystyrene 78HT	5 gal, 54 gal	27%	Bonds polystyrene with no surface degradation. High temperature resistance. Can be used for roofing membrane attachment.
	Large, Int and Jumbo Cylinder	15%	
Rubber And Vinyl 80	Aerosol	13%	High strength. High temperature resistance. Fast setting.
826 Plastic Adhesive	1 qt, 5 gal	23%	Fast drying for many plastic films. Resists fuels, water and oil. Thin liquid.
847 High Performance Rubber & Gasket Adhesive	5 oz, 1 qt, 1 gal, 5 gal, 54 gal	36%	Quick drying and flexible with fuel and oil resistance. Able to reactivate with heat and solvent. Curable with heat.
847H High Performance Rubber & Gasket Adhesive	5 gal	51%	High viscosity. Able to reactivate with heat and solvent. Curable with heat.
1099 High Performance Plastic Adhesive	5 oz, 1 qt, 1 gal, 5 gal, 54 gal	34%	Fast drying and heat curable. Resists weathering, water, oil, plasticizer migration and aliphatic fuels.
1099L High Performance Plastic Adhesive	5 gal, 54 gal	24%	Sprayable version of 1099H. Fast drying and heat curable. Resists weathering, water, oil, plasticizer migration and aliphatic fuels.
1300 High Performance Rubber & Gasket Adhesive	5 oz, 1 pt, 1 qt, 1 gal, 5 gal,	37%	High immediate strength. Fast-drying and heat resistant for rubber and metal. Meets MIL-M-81288 and MMM-A-121.
1300L High Performance Rubber & Gasket Adhesive	1 qt, 1 gal, 5 gal, 54 gal	30%	Lower viscosity for spraying. Fast-drying and heat resistant for rubber and metal. Meets MMM-A-121.
1357 High Performance Contact Adhesive	5 oz, 1 pt, 1 qt, 1 gal, 5 gal, 54 gal (Light Yellow only 5 gal and 55 gal)	25%	Rapid build up to a very high strength bond for metal. Resists heat and continuous load stress. Meets MMM-A-121 requirements.
1357L High Performance Contact Adhesive	5 gal, 54 gal	18%	Low viscosity. Resists heat and continuous load stress. Meets MMM-A-121 requirements.
2262 Plastic Adhesive	1 qt, 5 gal	27%	Clear and non-staining. Resists plasticizer migration for bonding many flexible vinyls. Fast tack.
4475 Industrial Plastic Adhesive	5 oz, 1 qt, 5 gal	43%	Clear plastic adhesive. Fast drying. Strong environmental resistance.
4491 Industrial Adhesive	5 gal, 54 gal	24%	Securely bonds vinyl with resistance to plasticizer migration. Versatile plastic adhesive. Excellent environmental resistance.
4550 Industrial Adhesive	5 gal, 54 gal	33%	Adding tack to large surfaces. Translucent. Long bonding range.
4693 High Performance Industrial Plastic Adhesive	5 oz, 1 qt, 1 gal, 5 gal, 54 gal, (High viscosity only 5 oz)	26%	Excellent plastic adhesive. Long tack range. Water and heat resistant.
4799 Industrial Adhesive	5 oz, 1 qt, 1 gal, 5 gal	32%	Water and heat resistant. Dries rapidly. EPDM bonder.
Fast Tack 1000NF	1 gal, 5 gal, 52 gal, 255 tote	49%	One-part immediate handling strength. Low overspray and high coverage. Bonds a wide variety of substrates with high temperature resistance .
Pressure Sensitive Adhesive 4224NF	5 gal , 52 gal	41%	Water-based, plasticizer resistant adhesive. Permanent pressure sensitive adhesive with an aggressive tack. Low VOC and GREENGUARD® Certified.
Fastbond™ Spray Activator 1	1 qt, 1L spray bottle, 5 gal, 30 gal	N/A	GREENGUARD® Certified. Low VOC and LEED® Compliant. UL MAGW2 component recognition.



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	Adhesive Strength	Color	Application Method	Bonding Range (Two Surfaces)	Flammability	Heat Resistance (SAFT)	Spray Pattern	VOC Content
	Medium	Blue	Spray	1 min–8 hr	Flammable	170°F	Web	55%
	Low	Clear	Spray	5 sec–60 min	Flammable	110°F	Mist	58%
	High	Clear	Spray	1–60 min	Flammable	230°F	Web	55%
	Medium	Clear	Spray	1–15 min	Flammable	190°F	Web	566g/L 62%
	Medium	Clear/Green	Spray	1–60 min	Flammable	200°F	Web	622g/L
	Medium	Blue	Spray	1–60 min	Flammable	230+°F	Web	611g/L
	High	Yellow	Spray	3–30 min	Flammable	300+°F	Web	54%
	Medium	Amber	Brush/Spray	Up to 45 min	Flammable	–	Web	731g/L
	Medium	Brown	Brush/Flow	Up to 15 min	Flammable	–	Brush	0g/L
	Medium	Brown	Brush/Flow	Up to 10 min	Flammable	–	Brush	5g/L
	High	Light Tan	Brush/Flow	Up to 40 min	Flammable	–	Brush/Flow	5g/L
	High	Light Tan	Brush/Spray	Up to 20 min	Flammable	–	Brush/Flow	443g/L
	High	Yellow	Brush/Flow	Up to 12 min	Flammable	300°F	Brush/Flow	667g/L
	High	Yellow	Brush/Spray	Up to 8 min	Flammable	300°F	Brush/Spray	≤706g/L
	High	Gray-Green/ Light Yellow	Brush/Spray	10–30 min	Flammable	300°F	Web	≤582g/L
	High	Gray-Green	Spray	10–30 min	Flammable	300°F	Web	515g/L
	High	Clear	Brush/Flow	2–20 min	Flammable	–	Brush/Flow	177g/L
	Medium	Clear	Brush/Flow	1–10 min	Flammable	–	Brush/Flow	600g/L
	High	Light Tan	Brush/Roll/Spray	Up to 20 min	Flammable	–	Web	190g/L
	Low	Clear	Brush/Roll/Spray	10–30 min	Flammable	–	Web	516g/L
	Medium	Clear	Brush/Spray	10–60 min	Flammable	–	Web	597g/L
	Medium	Black	Brush/Trowel	1–10 min	Flammable	–	Brush/Trowel	628g/L
	High	Neutral/Purple	Spray	1–10 min	Non-flammable	300°F	Mist	0g/L
	Medium	Blue/Clear	Brush/Roll/ Spray/Trowel	15 min–8 hr	Non-flammable	–	Mist	14g/L
	N/A	Clear	Spray	N/A	Non-flammable	–	Mist	0g/L



Note: The technical information and data on these pages should be considered representative or typical only and should not

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3M™ Adhesive Sealants



Flexible Bonding and Sealing Solutions for Avoiding the Elements

Keeping the elements – air, wind, water, dirt, sunlight, fuel, cold, heat – in or out is a design challenge for applications such as specialty vehicle windows, trailer seams, HVAC ductwork, wood doors, boat deck fittings and many more. With 3M™ Adhesive Sealants, you have a wide selection of solutions based on more than 50 years of development and innovation.



174



175

3M™ Polyurethane Sealant 560 moisture cures to a flexible seal/bond between exterior skins and metal framework and between wood flooring and metal framework. Tensile strength up to 580 psi is enough to replace mechanical fasteners in many situations.



177

3M™ Weatherban™ Sealant Tapes are butyl sealants available in a variety of widths and thicknesses. These are used for applications demanding high tack, aggressive adhesion, weather resistance and flexibility.



178

3M™ Marine Adhesive Sealant 5200 Fast Cure cures completely in only 48 hours to a strong flexible bond/seal. Applications include: assembly above or below the waterline such as, hull and stern joints, hull to deck seams, marine hardware and more.



5

3M™ Marine Adhesive Sealant 4000UV has superior UV resistance that is ideal for continuous exposure to sunlight. Applications include specialty vehicle roof seams and marine hardware assembly requiring superior aesthetics.



46

Seam sealing ductwork with 3M™ Polyurethane Sealant 540 will prevent air and dust intrusion. Its flexibility assists with vibration damping.



179

For gaps and seams inside of a specialty vehicle, 3M™ Polyurethane Sealant 540 stays flexible and secure at temperature extremes. This benefit allows for thermal expansion/contraction between dissimilar substrates.



180

3M™ Silane Modified Polymer Adhesive Sealant 740UV has superior UV resistance that is ideal for sealing seams and filling gaps for exterior applications.

3M™ Adhesive Sealants



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Proven performance in demanding applications

Product	Description	Tensile Strength psi (MPa)	Stress at 100% Strain psi (MPa)	Elongation (%)	Skin Time (min)	Hardness (Shore A)	Color (Dry)	Application Method	Typical Handling Strength	Cure Rate (mm/24 hr)	Service Temp. Range °F (°C)
3M™ Polyurethane Adhesive Sealants (UV stable, Paintable once skin forms, Multi-purpose)											
525	All-around sealing; very flexible, excellent for concrete.	300 (2.1)	75 (0.5)	>800	90–150	25	Gray	Bead	N/A	3	-22 to 176 (-30 to 80)
540	Multi-purpose sealing.	350 (2.4)	90 (0.6)	>700	60–90	40	White, Gray, Black	Bead	24 hr	3	-40 to 194 (-40 to 90)
550FC	Multi-purpose adhesive sealant.	375 (2.6)	150 (1.0)	>500	50–90	45	White, Gray, Black	Bead	24 hr	4	-40 to 194 (-40 to 90)
550FC + AC63	Two component system for accelerated cure of 550.	275 (1.9)	125 (0.9)	>500	20	45	White, Gray, Black	Bead	20 min full cure	20 min	-40 to 194 (-40 to 90)
551	Properties similar to 550FC with longer open time.	450 (3.1)	200 (1.4)	>600	120–180	45	White	Bead	24 hr	4	-40 to 194 (-40 to 90)
560	High strength adhesive sealant.	380 (2.6)	200 (1.4)	>300	50–60	55	White, Gray, Black	Bead	24 hr	4	-40 to 194 (-40 to 90)
560 + AC63	Two component system for accelerated cure of 560.	350 (2.4)	140 (0.9)	>500	40	50	White, Gray, Black	Bead	3 hr	<24 hr full cure	-40 to 194 (-40 to 90)
590	Structural glass bonding; approved for windshield replacement.	1170 (8.3)	475 (3.4)	400	25–40	65	Black	Bead	3-hr drive-away time (FMVSS 212)	3.5	-40 to 194 (-40 to 90)
3M™ Silane Modified Polymer (SMP) Adhesive Sealants (Excellent UV performance, Can be painted immediately, Isocyanate-free)											
730UV	Clear, cosmetic sealing with excellent UV resistance.	300 (2.1)	120 (0.8)	>200	25–30	30	Clear	Bead	24 hr	3.5	-40 to 194 (-40 to 90)
740UV	Multi-purpose sealing; excellent UV resistance, low VOC.	180 (1.2)	168 (1.2)	130	40–60	30	White, Gray, Black	Bead	24 hr	3.5	-40 to 194 (-40 to 90)
760UV	Multi-purpose bonding; excellent UV resistance, low VOC.	440 (3.0)	280 (1.9)	180	10–30	55	White, Gray, Black	Bead	24 hr	3.5	-40 to 212 (-40 to 100)
3M™ Marine Adhesive Sealants (Can be used above or below waterline)											
5200	Polyurethane. Industry standard for over 50 years. Permanent bonding of gelcoat, fiberglass. Long working time. Bonds/seals above and below waterline.	650 (4.5)	450 (3.1)	>230	>48 hr	70	White, Black, Tan, Mahogany	Bead	>48 hr	<1	-40 to 190 (-40 to 88)
5200FC	Polyurethane. Fast cure version of 5200. Up to 1 hr open time. Permanent bonding. Bonds/seals above and below waterline.	600 (4.1)	200 (1.4)	>350	60–120	60	White	Bead	48 hr	3	-40 to 190 (-40 to 88)
4200FC	Polyurethane. Medium strength bonding and water tight sealing; can be removed after prolonged use. Bonds/seals above and below waterline.	220 (1.5)	180 (1.2)	>275	50–90	40	White, Black	Bead	24 hr	3	-40 to 194 (-40 to 90)
4000UV	SMP. High performance, medium strength bonding and water tight sealing; excellent UV resistance. Bonds/seals above and below waterline.	450 (3.1)	210 (1.4)	>300	15–30	40	White, Black	Bead	24 hr	3.5	-40 to 194 (-40 to 90)
3000UV	SMP. Cosmetic sealing; excellent UV resistance, low VOC. Removable. Bonds/seals above and below waterline.	180 (1.2)	168 (1.2)	170	40–60	30	White, Gray, Black	Bead	24 hr	3.5	-40 to 194 (-40 to 90)
Marine Silicone	Silicone. High quality, marine grade, non-yellowing silicone. Mildew resistant, non-sagging. Removable. Bonds/seals above waterline.	220 (1.5)	65 (0.5)	>350	5–10	20	White, Clear	Bead	N/A	3	-40 to 190 (-40 to 88)

Adhesives and Sealants



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3M™ Adhesive Sealants



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Proven performance in demanding applications (cont.)

Product	Description	Tensile Strength psi (MPa)	Stress at 100% Strain psi (MPa)	Elongation (%)	Skin Time (min)	Hardness (Shore A)	Color (Dry)	Application Method	Typical Handling Strength	Cure Rate (mm/24 hr)	Service Temp. Range °F (°C)
3M™ Weatherban™ Sealants											
5354	High tack butyl tape for sealing; easy to compress, resists cold flow.	N/A	N/A	N/A	N/A	60	Black	Tape	N/A	N/A	N/A
PF5422	Thread reinforced butyl tape. Respositionable without clean up. Weather resistant.	125 (0.9)	25 (0.2)	400	30	N/A	Black	Tape	N/A	N/A	N/A
PF5423	Non-reinforced, thinner version of PF5422.	20 (0.2)	20 (0.2)	2700	30	N/A	Black	Tape	N/A	N/A	N/A
3M™ Specialty Sealant and Adhesive Products											
320	Fast drying. UV, corrosion resistant coating. Easy application with spray equipment.	420 (2.9)	N/A	250	60	N/A	White	Spray	24 hr	N/A	-15 to 194 (-25 to 90)
800	Solvent-based rubber dries to flexible seal. Solvent resistant.	100 (0.7)	70 (0.5)	1200	10	N/A	Red-Brown	Bead	24 hr	0.8	-65 to 200 (-54 to 93)
606	Weatherban™ Acrylic Sealant; Multipurpose indoor and outdoor sealing.	260 (1.8)	153 (1.0)	146	30	60	White	Bead	N/A	1.5	-28 to 180 (-33 to 82)
2084	Scotch-Seal™ solvent-based rubber industrial sealant. Metal sealant; aluminum color. Oil and fuel resistant.	700 (4.8)	475 (3.3)	800	5	30	Aluminum	Bead	24 hr	0.7	-65 to 200 (-54 to 93)
5010	Moisture-curing polyurethane. Excellent wood bonder.	275 (19)	N/A	N/A	3-5	N/A	Cream	Bead	24 hr	N/A	-22 to 212 (-30 to 100)

Product	Description	Color	Viscosity	VOC g/L	
3M™ Primers and Adhesion Promoters					
P591	All purpose primer	Black	Low	613	Polyurethane
P592	Metal primer	Clear	Low	790	Silane
AP596	Adhesion promoter cleaner	Clear	Low	798	Silane

Description	310	400 A-2K	400M	600M	600A	34A	643B
3M™ Applicators							
Type	Manual	Pneumatic	Manual	Manual	Pneumatic	Pneumatic	Battery-operated
310mL Cartridges	■		■	■		■	■
350mL Sausage Packs		■	■	■	■	■	■
400mL Sausage Packs			■	■	■	■	■
600mL Sausage Packs				■	■		■

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Bonding Tapes

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Help your customers successfully bond a variety of materials with strength and speed for permanent, structural and repositionable applications. Our double-sided bonding tapes provide shear strength, conformability, surface adhesion and temperature resistance.



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Dream. Design. Deliver.

Since 1980, 3M™ VHB™ Tape has offered unlimited design and application possibilities. By working with 3M's engineering experts, product designers know they can count on this reliable solution. Lab-tested and proven in the real world, 3M™ VHB™ Tape eliminates rivets, bolts, screws and welds.

- Durability for long-term performance indoors and out
- Productivity through application ease and versatility
- Instant bonding
- Smooth, invisible appearance
- Viscoelastic properties absorb shock and distribute stress evenly over the bond line
- Bond dissimilar materials with confidence



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3M™ VHB™ Tape bonds panels to a bus on contact. The tape seals against water, moisture and more. Bonding power eliminates mechanical fasteners for a smooth, clean surface. Viscoelastic properties help absorb shock and vibration for bond reliability.



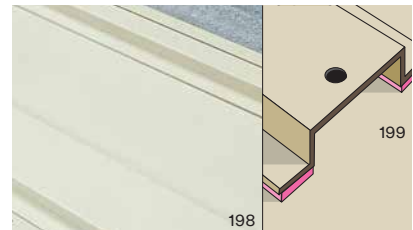
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To join a variety of materials for high impact visual combinations throughout a refrigerator, 3M™ VHB™ Tape bonds painted and unpainted metal, HSE and LSE plastics, ceramics and more.



197

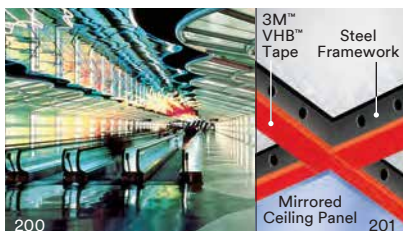
For assembly efficiency, die-cut pieces of 3M™ VHB™ Tape bond components on a laptop.



199

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3M™ VHB™ Tapes bond panel stiffeners on contact to pre-painted metal cabinetry. Unlike welding, applying the tape does not damage the finish.

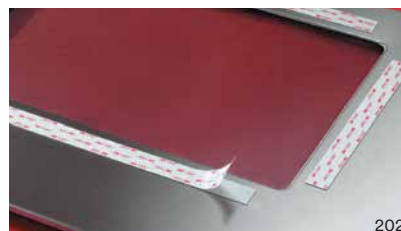


200



201

Mirrored ceiling panels are held in place with 3M™ VHB™ Tapes rather than screws. This helps maintain a clean, smooth appearance without distorting the reflective surfaces.



202

For a heat resistant bond, 3M™ VHB™ Tapes bond and seal stainless steel trim to the glass oven door with strength enough to replace mechanical fasteners. Door surface is smooth and attractive.



203

With high holding power and long-term reliability, 3M™ VHB™ Tape bonds dimensional letters to a painted wall for indoor or outdoor signage.

3M™ VHB™ Tapes – Typical Applications

3M™ VHB™ Tape is a proven high-strength alternative to screws, rivets, welds and other forms of traditional fastening methods. While a screw or a rivet can join two substrates at a single point, 3M™ VHB™ Tape permanently adheres one substrate to another and spreads the stress load across the entire length of the joint. The most common applications for 3M™ VHB™ Tape are:

Panel to Frame Applications

- Reduce weight and solve dynamic force challenges
- Create a clean appearance



Stiffener to Panel Applications

- Exceptional vibration and corrosion resistance
- Deliver unique designs



Lens Window to Housing Applications

- Securely seal dissimilar materials
- Enhance productivity
- Create innovative designs



Decorative Material Attachment Applications

- Unlimited opportunities to enhance products
- Flexibility of production and design



3M™ VHB™ Tapes

Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas	
					Min Hr	Days Weeks		HSE	LSE		
4941 Tape Family											
4926	15 (0.4)	A	Gray, closed-cell acrylic foam carrier. Conformable. Good adhesion to many painted metals. Plasticizer resistant. UL 746C.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Bond and seal polycarbonate lens over LCD. Bond and seal plastic windows to pre-painted control panels/switch gear. Mount vinyl wiring ducts and conduit channels. Seam vinyl banners.	
4936	25 (0.64)	A									
4936F	25 (0.64)	F									
4941	45 (1.1)	A									
4941F	45 (1.1)	D									
4956	62 (1.6)	A									
4956F	62 (1.6)	F									
4991	90 (2.3)	F									
4991B	90 (2.3)	F									Black version of 4991.
4919F	25 (0.64)	F									Black version of 4936F.
4947F	45 (1.1)	F	Black version of 4941F.								
4979F	62 (1.6)	F	Black version of 4956F.								
5952 Tape Family											
5906	6 (0.15)	G	Black, closed-cell acrylic foam carrier. Good adhesion to many painted surfaces, including powder coated paint.	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	Bond and seal polycarbonate lens over LCD. Lens and touch panel bonding. Logo attachment. P.O.P. and display construction.	
5907	8 (0.2)	G									
5908	10 (0.25)	G									
5909	12 (0.3)	G									
5915	16 (0.4)	F									
5915P	16 (0.4)	E									
5915WF	16 (0.4)	F									
5925	25 (0.6)	F									
5925P	25 (0.6)	E									
5925WF	25 (0.6)	F									
5930	32 (0.8)	F									
5930P	32 (0.8)	E									
5930WF	32 (0.8)	F									
5952	45 (1.1)	F									
5952P	45 (1.1)	E									
5952WF	45 (1.1)	F									
5962	62 (1.6)	F									
5962P	62 (1.6)	E									
5962WF	62 (1.6)	F									
5958FR	40 (1)	F	Meets FAR 25.853 (a) 12 sec vertical burn Appendix F, Part 1 (a) (ii)								
RP Tape Family											
RP16	16 (0.4)	A	Gray, closed-cell acrylic foam carrier. Conformable. Good adhesion to many painted metals.	Multi-purpose Acrylic	250°F (121°C)	200°F (93°C)	High	High	Med	Panel bonding, stiffener attachment and trim attachment.	
RP16F	16 (0.4)	F									
RP25	25 (0.6)	A									
RP25F	25 (0.6)	F									
RP32	32 (0.8)	A									
RP32F	32 (0.8)	F									
RP45	45 (1.1)	A									
RP45F	45 (1.1)	F									
RP62	62 (1.6)	A									
RP62F	62 (1.6)	F									

Liner Types:

- A – 3 mil 54# Densified Kraft Paper
- B – 5 mil Clear Polyethylene Film
- C – 2 mil Polyester Film
- D – 5 mil Red Polyethylene Film
- E – 4 mil 58# Polycoated Kraft Paper
- F – 5 mil Red Printed Polyethylene Film
- G – 3 mil Clear Polyethylene Film
- H – 5 mil Green PE Film

Relative Adhesion:

- HSE – High Surface Energy
- LSE – Low Surface Energy

Multi-purpose Acrylic: Bonds to a wide range of materials including metals, glass, and high and medium surface energy plastics and paints. Resists migration of plasticizers in vinyl substrates.

Modified Acrylic: Bonds to medium low surface energy paints and plastics, including many powder coated paints in addition to the substrates listed with tI plasticized vinyl).

General Purpose Acrylic: Bonds to most higher surface energy plastics.

Low Temperature Acrylic: Bonds down to 32°F (0°C) adhesives. Bonds most high surface energy substrate plastics.

Low Surface Energy: High performance synthetic adhesive substrates, including many plastics and powder coat



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3M™ VHB™ Tapes

Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Min Hr	Days Weeks		HSE	LSE	
4950 Tape Family										
4914	10 (0.25)	A	Closed-cell acrylic foam carrier. UL 746C.	General Purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Attach stiffeners in air conditioners, office furniture and telecommunications equipment.
4920	15 (0.4)	A								
4929	25 (0.6)	C								
4930	45 (1.1)	A								
4930F	45 (1.1)	D			400°F (204°C)	300°F (149°C)				
4949	45 (1.1)	C								
4950	45 (1.1)	A								
4955	80 (2)	C								
4959	120 (3)	C								
4959F	120 (3)	D								
4945 Tape Family										
4945	45 (1.1)	A	White, closed-cell acrylic foam carrier. Plasticizer resistant.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Attach vinyl trim. Bond vinyl extrusions.
4946	45 (1.1)	F								
4910 Tape Family										
4905	20 (0.5)	F	Clear, acrylic construction for joining transparent material.	General Purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Mount backlit translucent signs. Edge-bond resin filled glass.
4910	40 (1)	F								
4951 Tape Family										
4951	45 (1.1)	C	White, closed-cell acrylic foam carrier. Apply as low as 32°F (0°C).	Low Temp Applicable Acrylic	300°F (149°C)	200°F (93°C)	High	High	Low	Low temperature installed products.
4943F	45 (1.1)	C								
4957F	62 (1.6)	C								
4952 Tape Family										
4932	25 (0.6)	A	White, closed-cell acrylic foam carrier. Good adhesion to polypropylene and many powder paints.	Low Surface Energy	200°F (93°C)	160°F (71°C)	High	High	High	Bond powder painted metal stiffeners to office desks and file cabinets. Bond polypropylene and polystyrene.
4952	45 (1.1)	A								
4611 Tape Family										
4646	25 (0.6)	D	Dark gray, closed-cell acrylic foam carrier. High temperature resistance. UL 746C.	General Purpose Acrylic	450°F (232°C)	300°F (149°C)	High	High	Low	Pre-powder coat paint applications. Hat channels and stiffeners.
4611	45 (1.1)	D								
4655	62 (1.6)	D								
4622 Tape Family										
4618	25 (0.6)	H	White, closed-cell acrylic foam carrier.	General Purpose/ Multi-purpose Acrylic	250°F (121°C)	200°F (93°C)	High	High	Low	General purpose bonding.
4622	45 (1.1)	H								
4624	62 (1.6)	H								

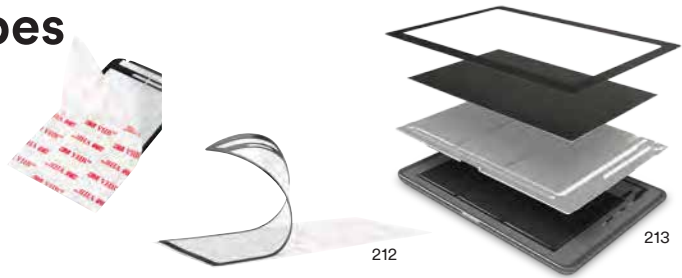
See key on page 70.



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3M™ VHB™ Thin Foam Tapes

With a uniquely thin form, 3M™ VHB™ Thin Foam Tapes go where thicker foam tapes simply can't, while still providing the same great benefits of regular 3M™ VHB™ Tapes. Common applications include LCD, lens and touch panel bonding, logo attachment and point of purchase displays.



Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Min Hr	Days Weeks		HSE	LSE	
5900 Tape Family										
5906	6 (0.15)	G	Black, closed-cell acrylic foam carrier. Good adhesion to many painted surfaces, including powder coated paint.	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	LCD, lens and touch panel bonding, logo attachment, P.O.P. and display construction.
5907	8 (0.2)	G								
5908	10 (0.25)	G								
5909	12 (0.3)	G								
86400 Tape Family										
86415	6 (0.15)	G	Black, closed-cell acrylic foam carrier. Good adhesion to many surfaces. Excellent shock/drop characteristics.	Acrylic	200°F (93°C)	158°F (70°C)	Medium	High	High	LCD, lens and touch panel bonding, logo attachment, P.O.P. and display construction.
86420	8 (0.2)	G								
86425	10 (0.25)	G								
86430	12 (0.3)	G								
4914 Tape Family										
4914-15	6 (0.15)	A	White, closed-cell acrylic foam carrier.	General Purpose	300°F (149°C)	200°F (93°C)	High	High	Low	LCD, lens and touch panel bonding, logo attachment, P.O.P. and display construction.
4914-20	8 (0.2)	A								
4914	10 (0.25)	A	White, closed-cell acrylic foam carrier. All-purpose adhesive. UL 746C.							
5980 Tape Family										
5980-015	6 (.15)	G	Black, closed-cell acrylic foam carrier. Best balance of properties. Excellent push out and anti-lift with drop shock resistance.	Acrylic	200°F (93°C)	158°F (70°C)	Medium	High	High	LCD, lens and touch panel bonding, logo attachment, P.O.P. and display construction.
5980-020	8 (0.2)	G								
5980-025	10 (0.25)	G								
5980-030	12 (0.3)	G								

See key on page 70.

3M™ VHB™ Tape for Commercial Vehicles and Trailers

Built Tough with Smooth Sides to Look Good for the Long Haul

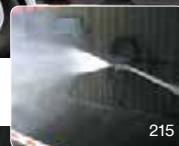
For durability and smooth sides on trailers, trucks, buses, and other commercial vehicles, 3M™ VHB™ Tapes are proven to go the distance.

- 3M™ VHB™ Tape is up to 41% quieter than mechanical fasteners with up to 30% less vibration at highway speeds
- Surfaces of truck panels are aesthetically smooth and graphics apply easily
- Permanently bonds and seals

3M™ VHB™ Tapes for Commercial Vehicles and Trailers are only available through authorized distributors and a warranty may be available on pre-approved applications.



Mechanically fastened at 36,000 miles – leaks at less than 75 psi.



Smooth sides with 3M™ VHB™ Tape at 100,000 miles – no leaks at 3200 psi.

Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Application Ideas
					Min Hr	Days Weeks		
CV45F	45 (1.1)	D	Gray, closed-cell acrylic foam carrier. Conformable. Good adhesion to many painted metals.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	Bond overlap seams on vehicle side panels.
CV62F	62 (1.6)	F						Bond vehicle side panels to posts.

See key on page 70.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ VHB™ Structural Glazing Tapes

Application Ease and Immediate Handling Strength for Increased Productivity

3M™ VHB™ Structural Glazing Tapes have been proven in thousands of buildings worldwide since 1990 as an alternative to structural silicone and spacer tapes/gaskets.

Immediate handling strength results in faster throughput and delivery. No mixing or curing simplifies manufacturing.

Proven technology with a 30+ year history in construction, an application warranty* is available for qualifying applications in select countries.



Product	Tape Thickness w/o Liner (mils (mm))	Liner Type	Description	Adhesive Type	Temp. Resistance		Relative Adhesion		Solvent Resistance
					Min Hr+	Days Weeks	HSE	LSE	
G23F	90 (2.3)	F	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	Med	High
B23F			Black, closed-cell acrylic foam carrier. Conformable.						

*3M™ VHB™ Structural Glazing Tapes are only available for structural glazing applications approved by 3M Technical Service through select distributors. See key on page 70.

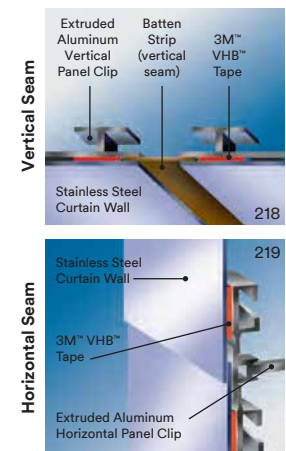
3M™ VHB™ Architectural Panel Tapes

Proven for More Than 30 Years in Applications from Denver to Singapore

For quick permanent assembly of cladding and curtain wall panels, 3M™ VHB™ Tapes provide an ideal combination of durability, performance and application ease.

Bond to a wide range of architectural panel substrates including dissimilar materials. With design flexibility, create visibly stunning facades.

Application warranty available for qualifying applications in select countries.



Product	Tape Thickness w/o Liner (mils (mm))	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		
					Min Hr	Days Weeks		HSE	LSE	
G11F	45 (1.1)	Red, Printed Film	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	Med	High	Med	
B11F	45 (1.1)		Black, closed-cell acrylic foam carrier. Conformable.							
G16F	62 (1.6)		Gray, closed-cell acrylic foam carrier. Conformable.							
B16F	62 (1.6)		Black, closed-cell acrylic foam carrier. Conformable.							
G90F	90 (2.3)		Gray, closed-cell acrylic foam carrier. Conformable.		250°F (121°C)	200°F (93°C)		Med	High	Med
B90F	90 (2.3)		Black, closed-cell acrylic foam carrier. Conformable.							

See key on page 70.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

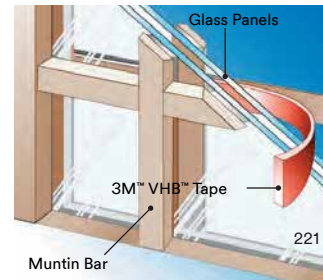
3M™ VHB™ Tape for Windows and Doors



Attach Wood, Vinyl, Composite or Painted Metal Muntin Bars to Windows

These high strength tapes conform to glass with good wet-out and resistance to UV light, thermal expansion and contraction, solvents and cleaners. Tapes below are available only for approved window and door customers. Pre-approved applications may be eligible for a 10-year warranty.

See 3M™ Primers on page 75.



Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion	
					Min Hr	Days Weeks		HSE	LSE
G45P	45 (1.1)	A	Gray, closed-cell acrylic foam carrier. Conformable.	Multi-purpose Adhesive	300°F (149°C)	200°F (93°C)	High	High	Med
G45F		D	Gray, closed-cell acrylic foam carrier. Conformable.						
B45F		F	Black, closed-cell acrylic foam carrier. Conformable.						

See key on page 70.

3M™ VHB™ Tape for Sign and Display

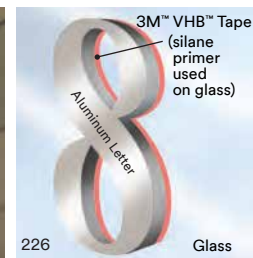
Reliable and Immediate Bonding

For indoor and outdoor signage, 3M™ VHB™ Tapes hold immediately without the work of screws and the mess and curing time of liquid adhesives.

- Bond metals, plastics, glass, foam board and more
- Invisible fastening for smooth, attractive surfaces



3M™ VHB™ Tape provides durable bonding in outdoor applications.



Clear 3M™ VHB™ Tape permanently bonds aluminum letters to glass and appears almost invisible from behind the pane.

Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Min Hr	Days Weeks		HSE	LSE	
5952	45 (1.1)	F	Black or white, closed-cell acrylic foam carrier.	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	Bond and seal metal and plastic through a sign.
5952WF	45 (1.1)	F	Good adhesion to many painted surfaces, including powder coated paint. UL 746C.							
5962	62 (1.6)	F								
4910	40 (1)	F	Clear, acrylic construction for joining transparent material.	General Purpose	300°F (149°C)	200°F (93°C)	High	High	Low	Bond unpainted metal.
4941	45 (1.1)	A	Gray, closed-cell acrylic foam carrier. Good adhesion to many painted metals. Plasticizer resistant. UL 746C.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Bond flexible vinyl banners.
4956	62 (1.6)	A								

See key on page 70.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ VHB™ Tape for Appliances



3M™ VHB™ Tape is the Ultimate Solution for Appliance Design Applications

From the kitchen to the laundry room, trust in 3M™ VHB™ Tape to expand design freedom in everything from how the side panels hold together to the way a brand's logo is displayed. Thanks to the viscoelastic properties of 3M™ VHB™ Tape, OEM consumer and commercial design engineers and manufacturers have access to a new realm of opportunities for beautiful, more efficient household appliance designs.



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Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Min Hr	Days Weeks		HSE	LSE	
4941	45 (1.1)	A	Gray, closed-cell acrylic foam carrier.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Logo attachment, overlay attachment and control panel assembly.
5952	45 (1.1)	F	Black, closed-cell acrylic foam carrier.	Modified Acrylic	300°F (149°C)	250°F (121°C)				
RP45	45 (1.1)	A	Gray, closed-cell acrylic foam carrier.	Multi-purpose Acrylic	250°F (121°C)	200°F (93°C)				

See key on page 70.

3M™ VHB™ Tape for Electronics

Electronic designs are becoming lighter, thinner and smaller every day. Bulky mechanical systems can be replaced with the incredible, strong, long-lasting viscoelastic bond of 3M™ VHB™ Tape. Expand design freedom and simplify manufacturing processes while meeting the challenges of a dynamic market and look no further than 3M™ VHB™ Tape.



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Product	Tape Thickness w/o Liner mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
					Min Hr	Days Weeks		HSE	LSE	
5908	10 (0.25)	G	Black, closed-cell acrylic foam carrier.	Modified Acrylic	300°F (149°C)	250°F (121°C)	High	High	Med	Bond and seal polycarbonate lens over LCD. Bond and seal plastic windows to pre-painted control panels/switch gear. Mount vinyl wiring ducts and conduit channels. Electronic component and assembly attachment.
5915	16 (0.4)	F								
5925	25 (0.6)	F								
5952	45 (1.1)	F	Gray, closed-cell acrylic foam carrier.	Multi-purpose Acrylic	250°F (121°C)	200°F (93°C)	High	High	Med	
RP16	16 (0.4)	A								
RP45	45 (1.1)	A								

See key on page 70.

3M™ Primers

Product	Solvent	Active Ingredients	VOCs	Color	Flashpoint	Coverage	Application Ideas
AP111	Isopropyl Alcohol (IPA)	Less than 5% by weight	5.91 lb/gal (708g/L)	Clear	52°F (11°C)	19m ² /L (800 ft ² /gal) based on .002" wet coating thickness depending on method of application	Promote better adhesion for bare metals and painted surfaces.
AP115	Isopropyl Alcohol and Water	Less than 1% by weight	6.08 lb/gal (728g/L)	Clear	53°F (12°C)	20–25 ft ² per 4 fl oz bottle (1.8–2.3m ² per 118mL bottle)	Promote better adhesion for glass.
Primer 94	See SDS	See SDS	Approx 6.3 lb/gal (755g/L) less H ₂ O and exempt solvents	Clear Light Yellow/Clear Dark Orange	-4°F (-20°C)	600 ft ² /gal (211m ² /L)	Promote better adhesion for a variety of plastic surfaces such as polyethylene, polypropylene, ABS and PET/PBT blends.

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3M™ Extreme Sealing Tapes



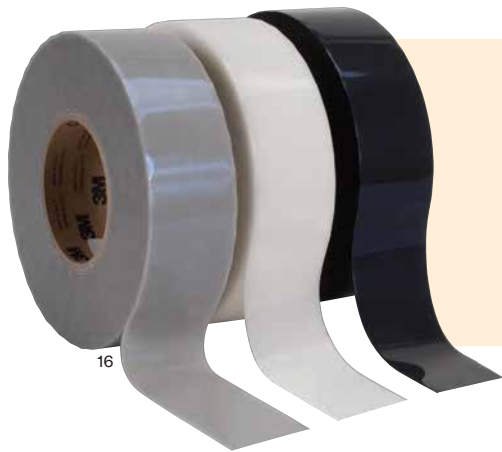
From Trailer, Bus and Rail Car Roof Seams to Metal Enclosures, a Sure Winner Over Traditional Sealants

- Sticks on contact to many metals and plastics without dripping, oozing or clean-up
- Increases productivity throughout with no drying time; immediately paintable*
- Conforms over contours, edges, rivets and screw heads for a water tight seal
- Looks neat and precise for improved aesthetics
- Outstanding resistance to many common industrial solvents
- Excellent resistance to abrasion and high pressure washing

*Accepts many paints. Test paint on tape to check for compatibility.



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Suggested Uses

- RV trailer and roofs
- Metal enclosures
- Awnings
- Trailer home roofs
- Metal storage buildings
- Vent stacks/windows
- Gutters and downspouts
- Skylights
- Outdoor signs/displays
- Leak patching and repairs



Scan the code to download the 3M™ Extreme Sealing Tape Exterior Durability Report.

Product	Color	Backing/Adhesive	Tape Thickness mils (mm)	Tensile Strength lb/in (N/cm)	90° Peel Adhesion Strength† lb/in (N/cm)						Widths in (mm)	Length yd (m)
					Aluminum	Stainless Steel	Glass	Truck Paint	PVC	ABS		
4411G	Grey	Ionomer Film/Pressure Sensitive Acrylic	40 (1)	13 (23)	15 (26)	16 (28)	15 (26)	15 (26)	15 (26)	16 (28)	0.75, 1, 2, 2.5, 3, 4 (19, 25, 50, 65, 75, 100)	36 (32.9)
4411N	Neutral/Translucent		40 (1)		15 (26)	15 (26)	15 (26)	14 (25)	16 (28)	16 (28)		
4411B	Black		40 (1)		19 (33)	17 (30)	19 (33)	17 (30)	19 (33)	18 (32)		
4412N	Neutral/Translucent		80 (2)		18 (32)	18 (32)	19 (33)	19 (33)	19 (33)	19 (33)		

†Adhesion promoters were used on peel Adhesion test substrates.



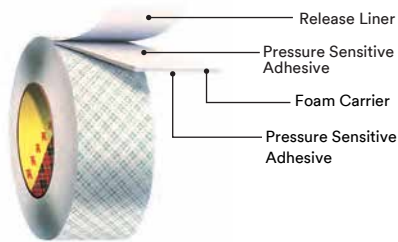
Note: The technical information and data on these pages should be considered representative or typical only and should not be used for design purposes.

3M™ Double Coated Foam Tapes

Flexible Foam Carriers Fill Gaps and Help Bond Irregular Surfaces

In bonding rough or irregular surfaces, 3M™ Double Coated Foam Tapes fill gaps and distribute stress uniformly over the bonded area.

- Bond line that seals, cushions and damps vibration
- Resists impact
- Withstands a wide temperature range to meet your application requirements
- Provides good insulating qualities
- Select from rubber or acrylic adhesive and a choice of different foam carriers: urethane, polyethylene or acrylic



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230

To replace screws and liquid adhesives, 3M™ Multipurpose Mounting Tape 4016 bonds immediately to many indoor surfaces, even permanently mounting a plastic soap dispenser to a mirror.



231

3M™ Double Coated Foam Tapes can be precisely die-cut and pre-applied to the back of any shape. Ready to mount to a variety of surfaces.



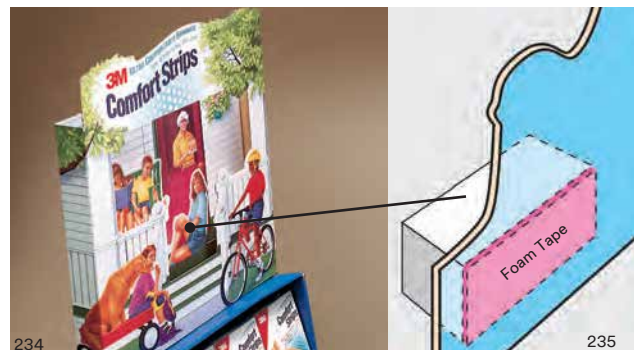
232

To permanently mount to a textured wall, 3M™ Extra Thick Multipurpose Mounting Tape 4008 bonds on contact and fills gaps between the surfaces.



233

3M™ Double Coated Urethane Foam Tapes bond plastic signs to painted cinder block. The foam fills gaps between irregular surfaces. Various foam thicknesses are available for surface conformance based on the degree of roughness.



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3M™ Double Coated Polyethylene Foam Tapes with high tack adhesive bond foam spacers between the planes of a 3-dimensional P.O.P. display.

3M™ Double Coated Foam Tapes

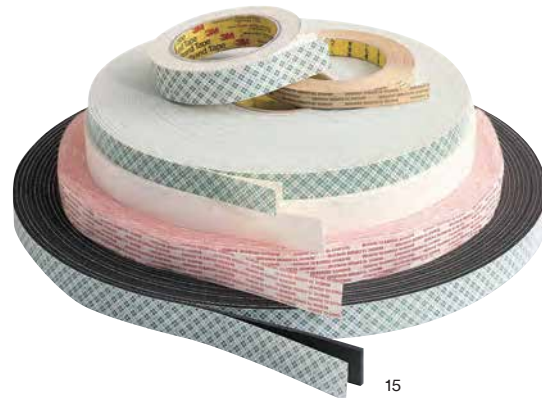
Product	Tape Thickness mils (mm)	Liner Type	Description	Adhesive Type	Temp. Resistance		Adhesive Type	Relative Adhesion		Application Ideas			
					Min Hr	Days Weeks		HSE	LSE				
Urethane													
4004	250 (6.4)	A	Off-white, open-cell urethane foam carrier. High shear adhesive with high temperature resistance.	100	380°F (193°C)	220°F (104°C)	Med	High	Low	Bond acoustic panels to walls. Mount air fresheners. Mount soap dispensers. Mount interior signs and nameplates. Attach wire clips to various surfaces. Mount electrical channel to wall.			
4008	125 (3.2)												
4016	62 (1.6)												
4026	62 (1.6)												
4032	31 (0.8)												
4052	31 (0.8)												
4056	62 (1.6)		Black versions of 4016 and 4026.	100	380°F (193°C)	220°F (104°C)							
4085	45 (1.1)	E	Off-white, open-cell urethane foam carrier. High tack adhesive.	740	200°F (93°C)	125°F (52°C)							
Polyethylene													
4451	32 (0.8)	C	Black, closed-cell, high density polyethylene foam carrier. High tack synthetic rubber.	A135	150°F (66°C)	120°F (49°C)	Med	High	Low	Removable applications where good static is needed. Exhibits and trade shows. Nameplates.			
4462	31 (0.8)	B	White or black, closed-cell polyethylene foam carrier. High tack adhesive.	745	158°F (70°C)	120°F (49°C)				Med	High	Low	Attach hooks, wire clips and racks. Mount retail shelf price channels. Mount pen holders.
4466	62 (1.6)												
4492	31 (0.8)	C	White or black, closed-cell polyethylene foam carrier. High shear adhesive with high temperature resistance.	430	180°F (82°C)	158°F (70°C)				Med	High	Low	Mount nameplates on awards and novelties. P.O.P. displays and signs.
4496	62 (1.6)												
Acrylic													
4658F	31 (0.8)	D	Clear, closed-cell, acrylic foam tape. Clean removability from many substrates.	100	212°F (100°C)	175°F (80°C)	High	High	Low	Removable P.O.P. displays. Signs. Exhibits and trade shows. Nameplates.			

Liner Types:

- A – 3 mil 62# Densified Kraft paper – Green plaid
- B – 3 mil Densified Kraft paper – White
- C – 4 mil 58# Polycoated Kraft paper – Tan
- D – 2 mil Polyester film – Clear
- E – 3 mil Densified Kraft paper – Tan

Relative Adhesion:

- HSE – High Surface Energy
- LSE – Low Surface Energy



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Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specific applications.

3M™ Double Coated Tapes

A Variety of Carriers for Easy Handling and Dispensing

3M™ Double Coated Tapes are engineered with adhesive on both sides of paper, film or tissue. This increases the dimensional stability of the adhesive for easy handling and application.

Depending on your production volume, you can apply tape by hand or with automatic high-volume dispensers. Select paper, polyester film or other synthetic carriers to help meet your special needs. Different adhesives (rubber, silicone or acrylic) can be on opposite sides of the carrier to join different materials. Your choice of properties include high temperature resistance, conformability to irregular surfaces, high initial adhesion, high shear strength and more.



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Simply roll on a strip or band of 3M™ Double Coated Tape 9832 for quick edge banding with no special equipment. Pressure sensitive adhesive tape grabs with immediate handling strength for improved productivity.



237

With differential adhesive, the silicone adhesive side of 3M™ Double Coated Tape adheres to a silicone rubber keypad. Acrylic adhesive side adheres to a plastic base.



238

3M™ Double Coated Tape 410M is the quick, convenient way to bond golf club grips to shafts. Adhesive sets up fast and bonds firmly for long-lasting performance.



239

For precise fit, 3M™ Double Coated Tape is pre-applied to foam gasketing materials and then die-cut to size. This helps increase dimensional stability of the part to facilitate assembly.

Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
				Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
200MP/300LSE (Differential Adhesive)														
9496LE	Differential double coated tape featuring High Performance Acrylic Adhesive 200MP and Low Surface Energy Acrylic Adhesive 300LSE.	6.7	PET	58# PCK	4.2	24" x 36" sheets	-	10	9	1	2	9	-40	400
								9	9	10	1	8	-40	300
300LSE (Low Surface Energy Acrylic)														
93005LE	Very thin double-coated tape polyester tape with good anti-lifting properties.	2.0	PET	58# PCK/ 83# PCK	4.2/ 6.2	48" x 60 yd	-							
93010LE	High adhesion to polypropylene and LSE plastics for excellent graphic appearances. Good chemical/humidity resistance.	3.9	PET	58# PCK	4.2	54" x 180 yd	-	9	9	10	1	8	-40	300
93015LE		5.9	PET	58# PCK	4.2	54" x 180 yd	-							
93020LE		7.9	PET	58# PCK	4.2	54" x 180 yd	-							

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Double Coated Tapes



Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
				Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
300 (High Strength Acrylic)														
444	Foam lamination. Gasket attachment.	3.9	PET	55# DK	3.2	48" x 108 yd	-	7	9	9	9	6	-40	250
444PC	Foam lamination. Gasket attachment.	3.9	PET	58# PCK	4.2	48" x 108 yd	-							
300MP (High Tack Acrylic)														
99786	Thin nonwoven carrier for dimensional stability and improved handling. Temperature resistance up to 300°F.	5.5	Non-woven	58# PCK Printed	4.2	48" x 180 yd	-	7	7	8	9	7	-40	250
99786NP	Same as 9786 except an unprinted liner.	5.5	Non-woven	58# PCK Unprinted	4.2	54" x 180 yd	-							
9832	General purpose tape with improved temperature resistance.	4.8	PET	58# PCK	4.2	54" x 250 yd	-							
9832HL	Same as 9832 except with a heavier liner.	4.8	PET	58# PCK	6.2	54" x 250 yd	-							
340 (High Tack Acrylic)														
9456	High tack acrylic adhesive with good adhesion to many plastics.	5.0	Tissue	55# DK	3.2	54" x 180 yd	-	6	6	5	4	8	-40	180
9824	Foam lamination.	3.1	PET	55# DK	3.2	54" x 250 yd	-							
9828	Gasket attachment.	4.0	PET	55# DK	3.2	54" x 250 yd	-							
9828PC	High tack acrylic adhesive with good adhesion to many foams.	4.0	PET	74# PCK	5.6	54" x 250 yd	-							
350 (High Performance Acrylic)														
9500PC	High performance with good chemical resistance.	5.6	PET	61.5 PCK	4.5	48" x 108 yd	-	9	10	10	9	8	-40	450
3028EK	Same as 9500PC with an extensible kraft liner which facilitates narrow slitting.	5.6	PET	Extensible Kraft	5.5	48" x 108 yd	-							
375 (High Performance Double Coated)														
9086	Easy tearing, easy handling.	7.5	Tissue	Glassine Black Logo	3.0	54" x 750 yd	-	High	High	Med	Low	Good	-10	250
9087	Thick adhesive to bond rough surfaces.	10.2	PVC	Glassine Green Logo	3.0	54" x 750 yd	-							185
400 (Acrylic Adhesive)														
415	Splice papers, films and foils.	4.0	PET	60# DK	4.0	48" x 108 yd	-	5	5	5	5	5	-60	250
9576		4.0	Clear PP	60# DK	4.0	27" x 360 yd	-							

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



Note: The technical information and data on these pages should be considered representative or typical only and should not be used for design purposes.

3M™ Double Coated Tapes

Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range		
				Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)	
Silicone/Acrylic Differential															
9731	Differential adhesive. Silicone/Acrylic double coated tape. Ideal for attaching silicone materials to HSE or LSE materials.	5.5	PET	Clear PET/54# Tan PCK	3.0/5.4	48" x 180 yd	-	10	10	9	8	8	-40	300	
Silicone															
96042	Silicone attachment. Silicone lined for easier processing.	5	PET	White PET	2	48" x 180 yd	-	9	8	7	6	10	-40	350	
700/745/760 (Synthetic Rubber)															
9443NP	High tack rubber adhesive with good adhesion to most plastics.	6	HDPE	60# DK	3.7	27" x 120 yd	-	8	9	9	2	2	-40	200	
9579	Core starting on metal cores.	9	HDPE	62# DK	3.7	27" x 144 yd	-								
9589	Carpet attachment.	9	HDPE	60# DK	3.7	26" x 144 yd	-								
830/850/860 (Natural Rubber)															
401M	Used for mounting rubber or photopolymer printing plates.	9.0	Paper	54# DK	3.0	22" x 108 yd	-	8	8	8	5	1	-40	180	
410M	Core starting/end tabbing of papers, films and foils.	6.0	Paper	54# DK	3.0	23.5" x 108 yd	-	8	8	8	5	1	-40	200	
900 (Miscellaneous)															
9737	Clear, thin PET carrier. Aggressive and versatile splicing tape.	3.5	PET	55# DK White	3.5	54" x 180 yd	-	5	5	2	5	7	-10	300	
9738	Clear, non-woven tissue carrier. Aggressive and versatile splicing tape.	4.3	Non-woven tissue	55# DK White	4.3	54" x 180 yd	-								
9740	Clear, high peel, tack and shear strength. Performance grade splicing tape for corrugators.	3.5	PET	55# DK	3.5	54" x 180 yd	-	6	6	2	3	6	10	425	
9741	Clear, thick, super aggressive tape. Adheres to a wide variety of substrates for splicing applications.	6.5	PET	55# Glassine	6.5	54" x 180 yd	-	7	7	3	7	5	-40	200	
9816L	General purpose, high tack, rubber-based adhesive.	3.5	PET	60# Kraft	3.5	54" x 200 yd	-	8	8	7	7	3	-40	150	
9816M				74# Kraft	3.5	54" x 200 yd	-								
9816H				14 pt. Board	3.5	54" x 200 yd	-								
9817L	Exposed side is acrylic, liner side is rubber-based. Excellent quick stick and adhesion to high and low energy surfaces.	3.3	PET	60# Kraft	3.5	54" x 200 yd	-	8	8	7	6	7	3	-40	175
9817M				74# Kraft	3.5	54" x 200 yd	-								
9817H				14 pt. Board	3.5	54" x 200 yd	-								
Specialty Differential Rubber/Acrylic															
9377	Flame retardant double-coated tape for carpet installation to bond carpet to interior floorboards.	11.0	PP	58# PCK	4.2	24" x 25 yd	-	4, 10	-	-	-	8	40	250	

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



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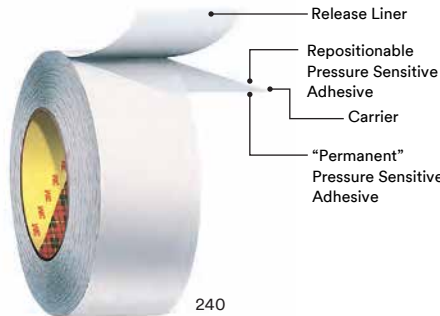
3M™ Removable/Repositionable Tapes

Versatility for Many Substrates on On-Off and Open-Close Applications

Some 3M™ Removable/Repositionable Tapes feature a “permanent” adhesive on one side of a film or tissue carrier and a removable/repositionable adhesive on the other side.

Other tapes in the line offer different levels of adhesion on each side. And others feature equal adhesive strength on each side for reliable attachment but with easy separation for repositioning or multiple openings and closings. You can join substrates that include glass, metals, wood, paper, painted surfaces and many plastics.

With lined versions, you can initially join one side to a surface while the other side is covered with the liner, ready to be joined later to the second surface. Linerless versions are used for bonding both surfaces at the same time.



3M™ Removable/Repositionable Tape seals hosiery bags for shipment and display but also lets the customer open and re-close the bag as necessary.



High tack side of 3M™ Removable/Repositionable Tape 9415 “permanently” adheres to cores for winding up paper or film. Low tack side releases the paper or film when unwinding.

Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
				Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
400/1000* (Differential Adhesive)														
9415PC	Differential adhesive; polyester film carrier.	2	PET	78# PCK	6.0	48" x 216 yd	-	5	5	5	4	5		
9416	Differential adhesive; tissue carrier.	1	Tissue	70# PCK	5.6	48" x 216 yd	-	3	1	1	-	2	-20	150
928ATG	Reverse wound ATG version of 9416 on 1" core. Used with ATG700 Applicator.	1	Tissue	70# PCK	5.6	Up to 3/4" W Up to 36 yd L	-	3	1	1	-	2		
420/1050* (Differential Adhesive)														
9425	High tack/medium tack for repositionable parts.	5.5	UPVC	58# PCK	4.2	48" x 144 yd	-	8 3	7 1	1 1	4 1	2 2	-20	125
9425HT	High tack/medium tack acrylic adhesive offers permanent adhesion to one substrate with removability to the other.	5	PET	58# PCK	4.2	48" x 144 yd	-	8 3	7 1	1 1	4 1	2 2	-20	250
400/1070 (Repositionable Acrylic)														
665	Differential adhesive; linerless.	3.5	UPVC	None	-	46" x 108 yd	-	5	5	5	4	5	-60	125
666	Differential adhesive; lined.		UPVC	LDPE	4.0		-							
800 (Natural Rubber)														
401M	Temporary positioning or fixturing of parts during machining operations and plate mounting.	9	Paper	54# DK	3	22" x 108 yd	-	8	8	8	5	1	-40	180
410M		6				23.5" x 108 yd							-40	200

*Second number reflects removable adhesive side.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



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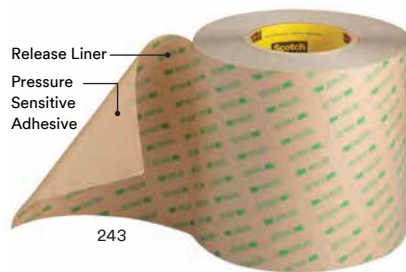
3M™ Adhesive Transfer Tapes

Neat, Precise Application and High Performance in a Variety of Applications

3M™ Adhesive Transfer Tapes are rolls of pressure sensitive adhesive pre-applied to a special release liner.

For application, the tape is simply pressed, adhesive side down, to a surface and the liner is peeled off.

A variety of adhesive properties and liners are available to meet requirements for applications such as nameplate attachment to high and low surface energy plastics, appliance graphic overlays that perform in high temperatures, foam gasketing, web splicing and more.



With high cohesive strength, 3M™ Adhesive 200MP bonds aggressively with excellent temperature resistance. Meets the non-fogging specifications of the automotive industry.



For bonding flexible vinyl in such applications as door gaskets, 3M™ Adhesive Transfer Tape F9465PC resists the effect of plasticizers that tend to migrate from the vinyl.



3M™ Laminating Adhesive 300LSE is the solution for low energy surfaces such as polyolefins and powder coat paint. Graphics hold securely and stand up to tough environmental conditions.



3M™ Adhesive Transfer Tapes provide conformability in a variety of foam laminating applications. The acrylic adhesive also provides high shear strength and good environmental aging properties.



3M™ Adhesive Transfer Tape 465 has the grab strength for many printing splices, including flying splices, zero speed and manual overlap. Can be used with a variety of paper grades.



3M™ Adhesive Transfer Tape 467MP is used to laminate metal foil to a circuit board to reduce interference on electronic circuitry.



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3M™ Adhesive Transfer Tapes



Product	Description/Application Ideas	Adhesive Caliper (mils)	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
			Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
100MP* (High Performance Acrylic)													
F9460PC	High performance industrial joining and metal fabrication.	2	58# PCK	4.2	60" x 180 yd	UL	10	7	1	2	10	-40	500
F9469PC	High performance industrial joining and metal fabrication.	5	58# PCK	4.2	60" x 180 yd	UL							
F9473PC	High performance industrial joining and metal fabrication.	10	58# PCK	4.2	60" x 180 yd	UL							
200MP (High Performance Acrylic)													
467MC	Same as 467MP with a paper MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	2	58# PCK	4.2	54" x 180 yd	-	10	9	1	3	9	-40	400
467MCF	Same as 467MP with a polyester MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	2	PET	4.2	54" x 180 yd	-							
467MP	Graphic attachment and general industrial joining. Industry standard. 60" width master also available.	2	58# PCK	4.2	48" x 180 yd	UL MH							
467MPF	Polyester liner for rotary processing of graphic and die cut parts.	2	PET	2.0	54" x 180 yd	UL							
468MC	Same as 468MP with a paper MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	5	58# PCK	4.0	54" x 180 yd	-							
468MCF	Same as 468MP with a polyester MicroChannel liner to aid in bubble and wrinkle free graphic attachment.	5	PET	4.0	54" x 180 yd	-							
468MP	Industry standard for graphic attachment and die cut parts. 60" width master also available.	5	58# PCK	4.2	48" x 180 yd	UL MH							
468MPF	Thicker version of 467MPF.	5	PET	2.0	54" x 180 yd	UL							
9667MP	Same as 467MP on heavy, lay-flat liner for kiss-cutting. 48" width master also available.	2	83# PCK	6.2	54" x 180 yd	UL							
9668MP	Same as 468MP on heavy, lay-flat liner. 48" width master also available.	5	83# PCK	6.2	54" x 180 yd	UL MH							
9668MPL	Better lay-flat properties.	5	94# PCK	7.0	60" x 180 yd	-							
220 (Industrial Acrylic)													
9502	Economical attachment of graphics and industrial joining. 60" width master also available.	2	58# PCK	4.2	48" x 180 yd	UL	8	7	1	2	8	-40	350
9505	Thicker version of 9502 for textured surfaces. 60" width master also available.	5	58# PCK	4.2	48" x 180 yd	UL							
9552	Double-linered laminating adhesive version of 9502.	2.3	58/58# PCK	4.2	48" x 360 yd	UL							
9555	Double-linered laminating adhesive version of 9505.	4.9	58/58# PCK	4.2	48" x 360 yd	UL							

*Products in this platform are 3M™ VHB™ Tapes offering our highest strength. MH meets Mil-P-19834B Type I.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



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3M™ Adhesive Transfer Tapes



Product	Description/Application Ideas	Adhesive Caliper (mils)	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
			Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
290 (Low Outgassing Acrylic)													
501FL	Ultra-clean adhesive for low outgassing applications.	1	PET	2.0	54" x 180 yd	-	9	7	1	2	9	-40	450
502FL	Ultra-clean adhesive for low outgassing applications.	2	PET	2.0	54" x 180 yd	-							
300 (High Strength Acrylic)													
927	Attach gaskets and a variety of industrial foam materials.	2	60# DK	3.5	48" x 180 yd	-	7	9	9	9	6	-40	250
950	Thicker version of 927.	5	60# DK	3.5	48" x 180 yd	UL							
950EK	Thicker version of 927 with extensible Kraft liner.	5	78# EK	6.0	48" x 180 yd	-							
992U	For performance-engineered labels. UV indicator in adhesive.	2	55# DK	3.2	48" x 180 yd	UL							
9458	Thin, high tack adhesive for rotary processing HSE and LSE parts.	1	55# DK	3.2	54" x 360 yd	UL							
9459W	White version of laminating adhesive 9459S.	1.5	55# DK	3.2	48" x 360 yd	UL							
9471	For smooth LSE plastics.	2	60# DK	3.5	48" x 180 yd	UL M ^H							
9472	5.0 mil version of 9471; for textured surfaces.	5	60# DK	3.5	48" x 180 yd	UL M ^H							
9653	A 3.5 mil version of 9471 on a heavy, lay-flat liner for kiss-cutting.	3.5	83# PCK	6.2	48" x 180 yd	UL							
9671	Heavier lined version of 9471 for easy handling, lay-flat properties.	2	83# PCK	6.2	48" x 180 yd	UL M ^H							
9672	Heavier lined version of 9472 for easy handling, lay-flat properties.	5	83# PCK	6.2	48" x 180 yd	UL							
9673	Same as 9671 with unprinted liner.	2	83# PCK	6.2	48" x 180 yd	UL M ^H							
300FR (Flame Retardant)													
9372W	Flame retardant. Moisture stable liner.	2	83# PCK	6.2	60" x 180 yd	UL	8	9	9	9	6	-40	250
9372DKW	Flame retardant. Rotary diecuttable liner.	2	55# DK	3.2	60" x 180 yd	UL							
9375W	Flame retardant. Moisture stable liner.	5	83# PCK	6.2	60" x 180 yd	UL							

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Bonding Tapes



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3M™ Adhesive Transfer Tapes



Product	Description/Application Ideas	Adhesive Caliper (mils)	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
			Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
300LSE (Low Surface Energy Acrylic)													
9453FL	Film lined version of 9453LE for rotary processing.	3.5	PET	2.0	54" x 180 yd	UL	9	10	10	1	7	-40	300
9453LE	A 3.5 mil version of 9471LE for application to rough surfaces. 48" master width available.	3.5	58# PCK	4.2	54" x 180 yd	UL							
9471FL	Film lined version of 9471LE for rotary processing.	2.3	PET	2.0	54" x 180 yd	UL							
9471LE	Bonds graphics to powder coatings, LSE plastics and oily materials.	2.3	58# PCK	4.2	54" x 180 yd	UL							
9472FL	A 5 mil version of 9471LE with film liner for textured surfaces.	5.2	PET	2.0	54" x 180 yd	UL							
9472LE	Thicker adhesive for textured LSE plastics and powder coatings.	5.2	58# PCK	4.2	54" x 180 yd	UL							
9653LE	Heavy lined 9453LE for easy handling and lay-flat properties.	3.5	83# PCK	6.2	54" x 180 yd	UL							
9671LE	Heavy lined 9471LE for easy handling and lay-flat properties.	2.3	83# PCK	6.2	54" x 180 yd	UL							
9672LE	Heavy lined 9472LE for easy handling and lay-flat properties.	5.2	83# PCK	6.2	54" x 180 yd	UL							
300MP (High Tack Acrylic)													
6035PC	Resists fogging for automotive interior fabric joining applications.	5	58# PCK	4.2	60" x 180 yd	-	7	7	8	8	7	-40	250
6035PL	Heavy lined version of 6035PC for easy handling, lay-flat properties.	5	83# PCK	6.2	60" x 180 yd	-							
6038PC	Low fogging. Automotive fabric and carpet attachment.	8	58# PCK	4.2	60" x 180 yd	-							
6038PL	Low fogging. For rough embossed surfaces with heavy liner for steel rule die-cutting.	8	83# PCK	6.2	60" x 180 yd	-							
9772WL	Provides excellent bond to various fabricated foams, fabrics and substrates.	2	96# PCK	7.0	60" x 180 yd	-							
9773WL		3											
9774WL		4											
9775WL		5											
320 (High Tenacity Acrylic)													
9447	Designed for use with 3M™ Label Component Systems.	1	55# DK	3.2	54" x 360 yd	-	5	5	1	1	5	-60	250
350 (High Performance Acrylic)													
9442	Excellent temperature and solvent resistance; high bond to low surface energy substrates.	2	55# DK	3.2	48" x 180 yd	UL	9	10	10	9	8	-40	450
9445	Thicker version of 9442.	5	55# DK	3.2	48" x 180 yd	UL							
9482PC	High tack and shear strength; excellent adhesion to plastics and foams.	2	58# PCK	4.2	48" x 180 yd	UL							
9485EK	Thicker version of 9482PC with an extensible Kraft liner.	5	78# EK	6.0	48" x 180 yd	-							
9485PC	A 5 mil version of 9482PC.	5	58# PCK	4.2	48" x 180 yd	UL							
9675	Heavy lined version of 9485PC for easy handling, lay-flat properties.	5	83# PCK	6.2	48" x 180 yd	-							

*Manufactured using a solventless adhesive coating process.

Values: 1 = Lowest Performance; 10 = Highest Performance

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3M™ Adhesive Transfer Tapes



Product	Description/Application Ideas	Adhesive Caliper (mils)	Liner		Master Size	Specs	Adhesion				Chem. Resist.	Temp. Range	
			Type	Caliper (mils)			Metal	HSE Plastic	LSE Plastic	Foam		Low (°F)	High (°F)
400 (Acrylic Adhesive)													
463	High tack and excellent adhesion to most paper stocks. For automatic dispensing.	2	60# DK	3.5	48" x 180 yd	-	5	5	5	4	5	-60	250
465	Same as 463, but with easy liner release for manual or hand application.	2	60# DK	3.5	48" x 180 yd	-							
9457	Adhesive with long term stability, excellent outdoor performance and UV resistance. Adhesive 400 is best if necessary to apply at cooler temperatures.	1	55# DK	3.2	54" x 360 yd	UL							
9665	Thicker version of 9457.	2	58# PCK	4.2	48" x 180 yd	-							
420 (Acrylic Adhesive)													
F9752PC	High tack; can be applied in temperatures as low as 32°F (0°C).	2	58# PCK	4.2	54" x 360 yd	-	7	7	8	4	6	-40	300
F9755PC	Thicker version of F9752PC for textured surfaces.	5	58# PCK	4.2	54" x 360 yd	-							
430 (Acrylic Adhesive)													
9497	Pink tinted high temperature splicing tape.	2	60# DK	3.5	48" x 360 yd	-	6	6	5	4	5	-40	350
9499	Transparent version of 9497.	2	60# DK	3.5	48" x 360 yd	-							
Specialty Acrylic													
9379	Jet fuel and hydraulic fluid resistant adhesive transfer tape.	2	PET	2	48" x 200 yd	MH*	9	8	1	2	9	-40	350
9380	Thicker version of 9379.	5	PET	2	48" x 200 yd	MH*							
F9465PC	Vinyl plasticizer resistant adhesive.	5	58# PCK	4.2	54" x 360 yd	-	10	10	7	5	5	-40	200
F9467U	Vinyl plasticizer resistant adhesive.	3.5	58# PCK	4.2	54" x 180 yd	-							
Silicone													
91022	Silicone attachment. Silicone lined for easier processing.	2	White PET	2	48" x 180 yd	-	9	8	7	6	10	-40	500

*MH meets Mil-P-19834B Type I.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



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Scotch® ATG Adhesive Transfer Tapes

Finger Touch Application of Pressure Sensitive Adhesive

Versatility, convenience and speed. That's what you get with Scotch® ATG Adhesive Transfer Tapes for assembly operations in businesses ranging from appliance and printing to P.O.P. and electronics. Readily bond, join, mount, or laminate materials such as paper, plastics, metal, foam and more.

With Scotch® ATG Applicators, a touch of the finger triggers a quick, controlled application of Scotch® ATG Adhesive Transfer Tape at the same time as the liner rewinds into the applicator. There is no mess and no cleanup. 3M advanced acrylic adhesive bonds on contact and is formulated with a choice of properties such as high temperature resistance, differential tack, adhesion to low surface energy plastic and more.



Save time and effort with Scotch® ATG Adhesive Transfer Tapes and Applicators. You apply a precise strip of adhesive at the same time as the liner rewinds into the applicator.



Scotch® ATG Applicator 700 with Scotch® ATG Adhesive Transfer Tape 924 makes fast work of folder assembly. Pressure sensitive adhesive bonds immediately and the folder pocket is ready to hold contents.



Scotch® ATG Applicator 700 for 3/4" and 1/2" wide tape



Scotch® ATG Applicator 714 for 1/4" wide tape



Scotch® ATG Applicator 752C for 3/4", 1/2" and 1/4" wide tape (1/4" adapter purchased separately)



Scotch® ATG Applicator 3662 for 2" wide tape

Product	Tape Thickness w/o Liner (mm)	Description	Temperature Resistance		Solvent Resistance	Relative Adhesion		Application Ideas	Adhesive Transfer Tape Equivalent
			Min Hr	Days Weeks		HSE	LSE		
300 (High Tack Acrylic)									
976	2 (0.05)	High tack. Excellent adhesion to most plastics.	250°F (121°C)	150°F (65°C)	Med	High	High	Attach fabric swatches in sample books.	927
400 (General Purpose Adhesive)									
924	2 (0.05)	General purpose. Excellent adhesion to most paper stocks.	250°F (121°C)	180°F (82°C)	Med	Med	Low	Seal pocket in folders. Bond mat board in picture frames. Splice paper, films, foils. General purpose bindery attaching.	465
987*	1.7 (0.040)								9498

*3M Brand Relative Adhesion: HSE – High Surface Energy; LSE – Low Surface Energy



3M™ Extended Liner Tapes

Versatile Pressure Sensitive Adhesive on Easy-to-Remove Liners

3M™ Extended Liner Tapes offer the adhesive versatility of 3M tapes but with liners wider than the adhesive. This leaves an easy-to-lift edge for convenient and easy liner removal. With the variety of adhesives, you have a selection of performance characteristics such as high tack for coated papers and plastics, low tack for temporary attachment, high temperature resistance and more. Apply manually or with equipment matched to your production volume requirements.



3M™ Extended Liner Tapes are available with a release liner wider than the adhesive. This provides an easy-to-grab edge for convenient liner removal.



Automatic and semi-automatic equipment is available for higher volume applications. For example, apply tape to business forms, literature, bounce back and business reply cards.



Depending on adhesive type, 3M™ Extended Liner Tapes are applied to envelopes, polybags, boxes or tubes. User simply peels off liner to expose the adhesive for an immediate, secure closure.



3M™ Extended Liner Tapes 450XL, 450EK and 465XL immediately bond product information “outserts” to polyethylene bottles. Holds tightly but can be cleanly removed.

Product	Tape Thickness w/o liner mils (mm)	Liner Type	Description	Temperature Resistance		Solvent Resistance	Relative Adhesion		Application Ideas
				Min Hr	Days Weeks		HSE	LSE	
340									
466XL	2 (0.05)	62# DK White with Black Print	High tack; Permanent	180°F (82°C)	150°F (65°C)	Med	High	High	Coated papers and low surface energy (LSE) plastics. Overnight envelopes. Features an end-of-roll indicator tab for automated dispensing.
400									
465XL	2 (0.05)	60# DK Tan with Green Print	General purpose	250°F (121°C)	180°F (82°C)	Med	Med	Low	Seal flaps on overnight envelopes. Pressure sensitive edging on business forms. General commercial joining applications. For attaching materials that require more adhesive thickness. Larger outsert attachments.
450EK	1 (0.025)	78# Extensible Kraft White w/o Print							Pharmaceutical outsert attachment. For applications requiring a more tear resistant liner.
450XL	1 (0.025)	60# DK Tan with Green Print							Pharmaceutical outsert attachment. General paper attachment.
920XL	1 (0.025)	40# DK White with Red Print	General purpose	180°F (82°C)	150°F (65°C)	Med	Med	Low	Seal flaps on polybags and envelopes. Pressure sensitive edging on business forms, literature, photos, posters and labels.
9926XL	1 (0.025)	40# DK White with Red Print							Economical alternative for general paper-to-paper applications.
600									
9934XL	4 (0.10)	60# DK tan without Print	High tack to LSE materials	150°F (65°C)	120°F (49°C)	Med	High	High	P.O.P. displays. Difficult splicing applications, shelf talkers, price tags, polyethylene foam bonding. Indirect food-contact applications. ¹ High tack to LSE materials.
760									
476XL	6 (0.16)	62# DK White with Red Print	High tack, double coated film	150°F (65°C)	120°F (49°C)	Med	High	High	Heavy-duty sealing. Mounting of promotional items. Core starting. Closure of overnight boxes, tubes and envelopes. Indirect food-contact applications. ¹
770									
9925XL ²	2.5 (0.065)	43# DK White with Black Print	Tissue reinforced; High initial adhesion to a wide variety of materials	150°F (65°C)	100°F (41°C)	Low	Med	Med	General mounting. P.O.P. items. Attaching tags and labels. Core starting. Permanent bonding paper-to-paper, business forms, traffic tickets, novelty items and literature. Indirect food-contact applications. ¹

1 – FDA acceptable dry ingredients listed as indirect food-contact additives when used in food packing with minimal opportunity for exposure.

2 – Non-liner side is adhesive coated full width.

Relative Adhesion:
HSE – High Surface Energy
LSE – Low Surface Energy

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Specialty Technologies

Supporting your designs behind the seams.

Powerful Fastening Solutions

3M™ Reclosable Fasteners provide secure fastening with easy access and enhanced gripping for a wide range of applications. Weather-resistant single coated foam tapes are practical solutions that protect against moisture, dust, vibration and impact, and remain flexible.



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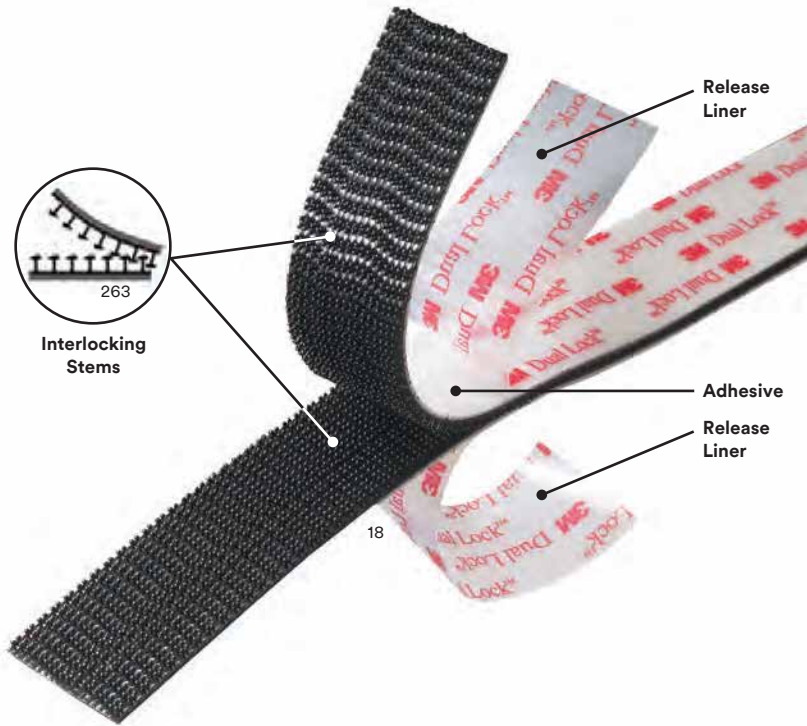
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3M™ Dual Lock™ Reclosable Fasteners

Holding Power to Replace Screws, Bolts and Rivets

Durable enough to last through repeated opening and closing. Unique mushroom-shaped heads snap shut and stay locked.

- Durable – up to 1,000 openings and closings before losing 50% of original tensile strength
- Helps reduce vibration
- Temperature, moisture and UV resistant
- Strong, pressure-sensitive adhesive bonds on contact
- Interlocking mushroom-shaped heads have **5X the tensile strength** of hook-and-loop products



Secure plastic signs to window glass.



Anchor vehicle accessories to dashboard.



Attach elevator control panel to interior wall.



Fasten ceiling panels to interior for future access.



Attach access panels to industrial, electronic and electrical equipment.

3M™ Dual Lock™ Reclosable Fasteners and Applications



- Best Suggested Product
- Primer Recommended
- ▲ Performance Dependent on Selected Attachment Method

Product	Stem Density (per sq/in)	Adhesive	Color	3M Liner	Engaged Thickness	Temperature Resistance °F (°C)	Substrates					Use	Markets								
							Metals (Al & SS)	Glass	Plastics (Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP, PE)		Indoor/Outdoor	Aerospace & Rail	Appliance & Electronics	Design & Construction	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle	POP, Display & Signage	
SJ3540	250	Rubber	Black	White, 5 mil (0.13mm) Polyolefin	0.23 in (5.7mm)	120 (49)	■		■	■	■	Indoor				■	■	■			
SJ3541	400																				
SJ3542	170																				
SJ3550	250	White Acrylic	Black	Clear, 4 mil (0.10mm) Polyolefin	0.23 in (5.7mm)	200 (93)	■	■	■	●	●	Indoor/Outdoor	■	■	■	■	■	■			
SJ3551	400																				
SJ3552	170																				
SJ3558	250	White Acrylic	Clear*	Clear, 4 mil (0.10mm) Polyolefin	0.23 in (5.7mm)	200 (93)	■	■	■	●	●	Indoor/Outdoor		■	■	■	■	■			
SJ3560	250	Clear Acrylic	Clear	Clear, 4 mil (0.10mm) Polyolefin	0.23 in (5.7mm)	220 (104)	■	■	■	●	●	Indoor/Outdoor		■	■	■	■	■			
SJ3561	400																				
SJ3562	170																				
SJ3550CF	250	Clear Acrylic	Black	Clear, 4 mil (0.10mm) Polyolefin	0.23 in (5.7mm)	220 (104)	■	■	■	●	●	Indoor/Outdoor		■	■	■	■	■			
SJ3551CF	400																				
SJ3552CF	170																				
SJ3870	250	Modified Acrylic	Black	Red, 4.5 mil (0.11mm) Polyolefin	0.24 in (6.1mm)	140 (60)	■		■	■	●	Indoor/Outdoor				■	■	■			
SJ3871	400																				
SJ3872	170																				
SJ3782	250	Low Surface Energy Acrylic	Black	Brown, 83# Polykraft	0.16 in (4.1mm)	120 (49)	■		■	■	■	Indoor/Outdoor	■		■	■	■	■			
SJ3440	250	None	Black	No Liner	0.15 in (3.86mm)	220 (104)	▲	▲	▲	▲	▲	Indoor/Outdoor		▲	▲	▲	▲	▲			
SJ3441	400																				
SJ3442	170																				
SJ3443	400	Non-woven Backing with No Adhesive	Black	No Liner	0.28 in (7.1mm)	220 (104)	▲	▲	▲	▲	▲	Indoor/Outdoor		▲	▲	▲	▲	▲			
SJ3444	170																				
SJ3445	250																				
SJ3460	250	None	Clear	No Liner	0.15 in (3.86mm)	220 (104)	▲	▲	▲	▲	▲	Indoor/Outdoor		▲	▲	▲	▲	▲			
SJ3463	400	Piece Part Circle†	Black	No Liner	0.20 in** (5.1mm)	220 (104)	■		■	■	■	Indoor/Outdoor		■	■	■	■	■			
SJ3481	400	Rigid Strip†	Black	No Liner	0.20 in** (5.1mm)	220 (104)	▲	▲	▲	▲	▲	Indoor/Outdoor		▲	▲	▲	▲	▲			
SJ4570	Low Profile/Thin	Low Surface Energy Acrylic	Clear	Brown, 83# Polykraft	0.098 in (2.489mm)	158 (70)	■		■	■	■	Indoor/Outdoor		■	■	■	■	■			
SJ4575			Black																		
SJ4580		Clear Acrylic	Clear	Red, 4.5 mil (0.11mm) Polyolefin	0.12 in (3.0mm)	200 (93)	■	■	■	●	●	Indoor/Outdoor	■	■	■	■	■	■			

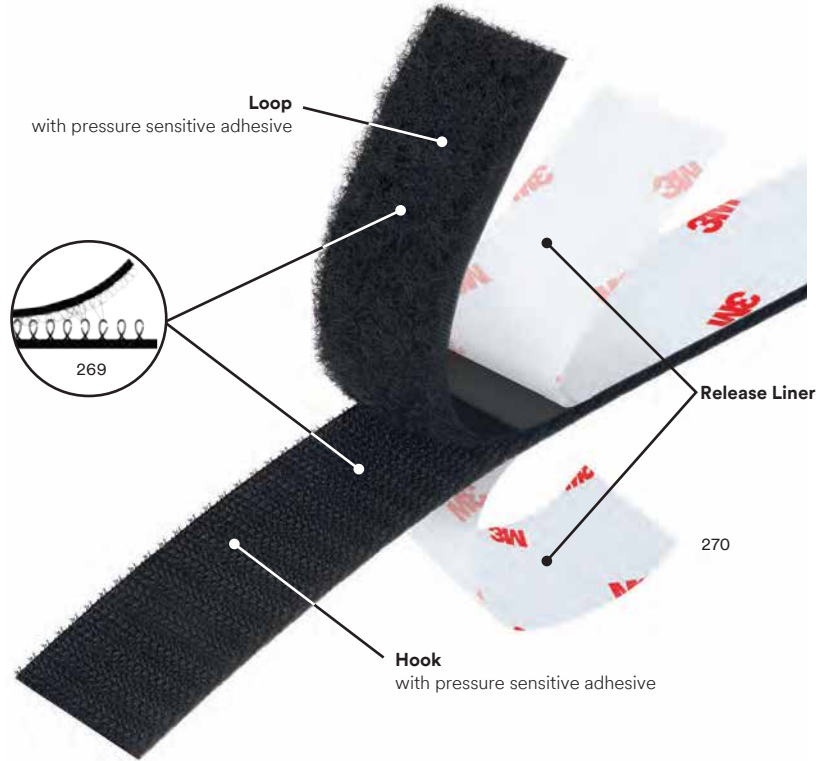
*Clear fastener utilizes a white adhesive giving the product a white appearance **Single thickness; not engaged †No adhesive

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Hook and Loop Reclosable Fasteners

Hooks on One Side, Loops on the Other for Secure, Repeated Closures

- Reliable PSA holds on contact with a variety of materials
- Low profile options, as much as 75% thinner than standard product
- Up to 5,000 closures for standard Hook and Loop
- Flame resistant product available
- Also available without adhesive



Attach cushioning panels in an ambulance or bus.



Sew to the fabric and leather of jackets and gloves.



Use as a replacement for string, tapes, rubber bands, wire and strapping.



Attach removable seat cushions.



Hang graphics and banners that change frequently.

3M™ Hook and Loop Reclosable Fasteners and Applications



- Best Suggested Product
- Performance Dependent on Selected Attachment Method
- ▲ Primer Recommended
- Back-to-back fastener which can wrap around any type of surface or substrate

Product	Type	Adhesive	Closure Life	Product Material	Liner Description	Engaged Thickness	Temperature Resistance °F (°C)	Substrates					Use	Markets				
								Metals (Al & SS)	Glass	Plastics (Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP, PE)		Indoor/Outdoor	Aerospace & Rail	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle
Best																		
SJ3526N	Hook	High Performance Rubber	5,000	Nylon	White, 3 mil (0.08mm) Polyethylene Film 3M Red Print	0.14" (3.6mm)	120 (49)	■		■	■	■	Indoor		■	■		■
SJ3527N	Loop																	
SJ3572	Hook	High Performance Acrylic	5,000	Nylon	Clear, 4 mil (0.10mm) Polypropylene Film Embossed 3M Logo	0.14" (3.6mm)	200 (93)	■	■	■	▲	▲	Indoor/Outdoor		■	■	■	■
SJ3571	Loop																	
Better																		
SJ3522	Hook	Plasticizer Resistant Acrylic	5,000	Nylon	Clear, 3.5 mil (0.08mm) Polyolefin Film, No print	0.14" (3.6mm)	158 (70)	■		■			Indoor/Outdoor		■	■	■	■
SJ3523	Loop																	
SJ3530	Hook	High Tack Rubber	5,000	Nylon	Yellow, 3 mil (mm) Polyethylene Film No Print	0.14" (3.6mm)	90 (32)	■		■	■	■	Indoor		■	■		■
SJ3531	Loop																	
General Purpose																		
SJ30H	Hook	Rubber	5,000	Nylon	White, 3 mil (0.08mm) Polyethylene Film No Print	0.14" (3.6mm)	100 (38)	■		■		■	Indoor			■		■
SJ30L	Loop																	
SJ60H	Hook	Acrylic	5,000	Nylon	Clear, 4 mil (0.10mm) Polypropylene Film Embossed 3M Logo	0.125" (3.2mm)	180 (82)	■		■			Indoor/Outdoor			■		■
SJ60L	Loop																	
SJ3401	Loop	None	5,000	Nylon	None	0.12" (3.0mm)	200 (93)	●	●	●	●	●	Indoor/Outdoor		●	●		●
SJ3402	Hook																	
Low Profile/Thin																		
SJ3506	Hook	Acrylic	25	Polypropylene	Brown #83 Polykraft Green Print	0.034" (0.84mm)	158 (70)	■	■	■	▲	▲	Indoor/Outdoor			■		■
SJ3507	Loop							Polyester										
SJ3000	Back-to-Back Hook and Loop	None	10	Polypropylene/Nylon	None	0.053" (1.3mm)	200 (93)	□	□	□	□	□	Indoor	□	□	□	□	□
Flame Resistant																		
SJ3519FR	Hook	Flame Resistant	5,000	FR Nylon	White, 3 mil (0.08mm) Polyethylene Film 3M Red Print	0.14" (3.6mm)	158 (70)	■		■	■	■	Indoor	■	■	■	■	
SJ3518FR	Loop																	
SJ3419FR	Hook	None	5,000	FR Nylon	None	0.12" (3.0mm)	200 (93)	●	●	●	●	●	Indoor/Outdoor	●	●	●		
SJ3418FR	Loop																	

Specialty Technologies



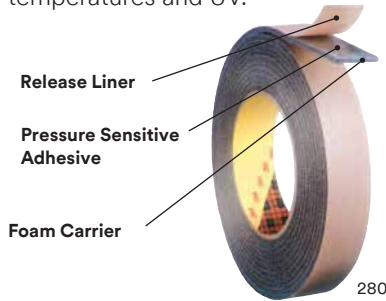
Note: The technical information and data on these pages should be considered representative or typical only and should not

3M™ Single Coated Foam Tapes

Roll-on Protection Against Moisture, Dust, Noise, Vibration and Impact

3M™ Single Coated Foam Tapes are strips of foam in a roll with high strength acrylic adhesive on one side of the foam. Cut to length, they seal, damp, insulate or cushion. For die-cut shapes, 3M™ Single Coated Foam Tape Series 4100, 4300, and 4700 is protected by a liner. With 3M™ Single Coated Foam Tape Series 4500, the liner is on the non-adhesive side to minimize foam stretching while placing the gasket.

Urethane foams seal, cushion, damp sound, and absorb vibration. Weather-resistant vinyl foams seal out light and dust when under compression and remain flexible even when exposed to variable temperatures and UV.



In a computer printer, 3M™ Urethane Foam Tape 4318 is a very soft, low density cushion that helps absorb impact and vibration.



When compressed 50%, the open cell construction of 3M™ Urethane Foam Tape 4314 provides an air barrier and cushion in electronic equipment.



To help prevent light leakage around a sign perimeter, 3M™ Vinyl Foam Tape 4726 attaches securely on contact.



In outdoor mailboxes, strips of 3M™ Vinyl Foam Tape 4504 helps seal the inside from rain and dirt. Vinyl provides excellent aging characteristics and remains flexible.

Product	Color	Description	Adhesive	Approximate Thickness in (mm)	Density lb/cu ft (kg/cu m)	Tensile Strength psi (kPa)	Compression Deflection 25% psi (kPa)	Compression Set % Loss	Temperature Tolerance	
									Short-term	Long-term
Urethane										
4104*	Natural White	Firm, rigid, open cell urethane foam for cushioning. Allows air or gas vapors to pass through. Not recommended for outdoor use.	350 Acrylic	0.250(6)	12 (192)	115 (795)	4 (27.6)	8	350°F (176°C)	200°F (93°C)
4108	Natural White			0.125 (3)	16 (256)	130 (895)	6 (82.8)	8		
4116	Natural White			0.062 (1.5)	18 (288)	115 (795)	12 (82.8)	12		
4314	Charcoal Gray	Soft conformable, low density foam for sealing out air, dust and light when compressed 30%. Used to help damp sound and absorb vibration in electronics.	430 Acrylic	0.250 (6)	2 (32)	25 (170)	0.3 (2.1)	5	250°F (121°C)	150°F (66°C)
4317*	Charcoal Gray			0.375 (9.5)						
4318	Charcoal Gray			0.125 (3)						
Vinyl										
4504*	Black	Durable, flexible, closed cell vinyl foams with excellent aging characteristics. Weather resistant. Application ideas include dust and moisture seal.	430 Acrylic	0.250 (6)	20 (320)	90 (620)	4 (27.6)	15	250°F (121°C)	150°F (66°C)
4508*	Black			0.125 (3)	20 (320)	100 (690)				
4516*	Black			0.062 (1.5)	25 (400)	130 (895)				
4714*	Black	Same as above except lower density and liner over PSA.	430 Acrylic	0.250 (6)	14 (225)	75 (515)	2 (13.8)	5	250°F (121°C)	150°F (66°C)
4718*	Black			0.125 (3)	20 (320)	100 (690)	4 (27.6)	15		
4726*	Black			0.062 (1.5)	20 (320)	130 (895)	3 (20.7)	15		

*Meets requirements of UL 94HBF.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M Converter Markets Center

Converting 3M Technology into Successful Applications

3M Converters match 3M technologies to customer requirements with the exact form, fit, and functionality for application success in identifying, bonding, protecting, and electrical shielding or conducting.

Converter expertise includes part design, quick prototyping, laminating adhesives to various surfaces, printing labels and durable graphics, slitting, and die-cutting.

3M technologies include the following:

- 3M™ Performance Label Materials
- 3M™ Thin Attachment Tapes
- 3M™ Adhesive Transfer and Double Coated Bonding Tapes such as 3M™ VHB™ Tapes
- 3M™ Single Coated Tapes such as crepe masking tape
- 3M™ Reclosable Fasteners
- 3M™ Bumpon™ Protective Products
- And more



3M™ Performance Label Materials with Structured Adhesive – With unique microchannels throughout the structured adhesive, air flows freely from between the label adhesive and substrate. Hand-applied large labels go on smoothly and stay that way permanently without unsightly wrinkles and bubbles.



For permanent attachment of die-cut durable graphics, 3M™ Low Surface Energy (LSE) Acrylic Adhesive 300 bonds on contact and stays tight on low surface energy plastics, powder coated paints, and lightly oiled metals.



Dimensionally-stable 3M™ Double Coated Tapes are pre-applied to foam gasketing material and die-cut to precise shape and size for fast, easy application.



3M converters can slit 3M™ Masking Tapes to specified widths and roll lengths, as well as die-cut to unique shapes for specialized applications.



For hundreds to thousands of openings and closings, 3M converters customize 3M™ Reclosable Fasteners to meet exact customer requirements for form, fit, mating strength, and liner.



For a little touch of quiet and skid resistance on a PDA or other small product, custom 3M™ Bumpon™ Protective Products are scaled for the design. Adhesive is formulated to hold even a small bonding surface.



From the 150,000 possible combinations of adhesives, facestocks, overlaminates and liners, 3M has many choices for durable labels requiring UL and/or RoHS compliance.

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