

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 the multi-purpose acrylic adhesive (except plasticized vinyl).

General Purpose Acrylic: Bonds to most higher surface energy substrates including metal, glass and high surface energy plastics.

Low Temperature Acrylic: Bonds down to 32°F (0°C) compared to 50°F (10°C) for most acrylic adhesives. Bonds most high surface energy substrates including metal, glass and high surface energy plastics.

Low Surface Energy: High performance synthetic adhesive bonds to many lower surface energy substrates, including many plastics and powder coated paints, plus smooth general purpose substrates.

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					Min Hr	Days Weeks		HSE	LSE	
LSE Tape Family										
LSE-060WF	25 (0.6)	F	Specifically for LSE substrates such as polypropylene (PP), thermoplastic elastomers (TPE) and thermoplastic olefins (TPO).	LSE Acrylic	300°F (150°C)	200°F (93°C)	High	High	High	Made to live outdoors. Resists hot, cold and cycling temperature, UV light, moisture and solvents. Seals against environmental conditions. Low-temperature bonding with high initial tack at low temperatures on frost-free surfaces down to 0°C.
LSE-110WF	45 (1.10)	F								
LSE-160WF	62 (1.6)	F								
GPH Tape Family										
GPH-060GF	25 (0.6)	F	Superior high-temperature performance for powder coat or liquid paint processes and multi material bonding.	High Temp Acrylic	450°F (230°C)	300°F (150°C)	High	High	Medium	High temperature resistance allows tape to reduce the number of "touches," leading to a more streamlined manufacturing process.
GPH-110GF	45 (1.10)	F								
GPH-160GF	62 (1.6)	F								
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								
4949	45 (1.1)	C			400°F (204°C)	300°F (149°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								
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 74.

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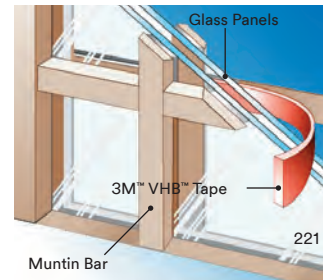
3M™ VHB™ Tape for Windows and Doors



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 79.



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 74.

3M™ VHB™ Tape for Sign and Display

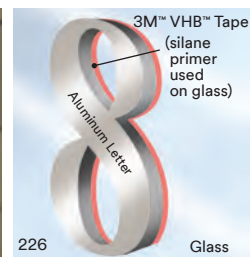
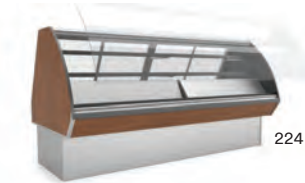
Reliable and Immediate Bonding

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. Good adhesion to many painted surfaces, including powder coated paint. UL 746C.	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								
5962	62 (1.6)	F								
LSE-060WF	25 (0.6)	F	Specifically for LSE substrates such as polypropylene (PP), thermoplastic elastomers (TPE) and thermoplastic olefins (TPO).	LSE Acrylic	300°F (150°C)	200°F (93°C)	High	High	High	Outdoor use. Seals against environmental conditions.
LSE-110WF	45 (1.10)	F		General Purpose	300°F (149°C)	200°F (93°C)	High	High	Low	Bond unpainted metal.
LSE-160WF	62 (1.6)	F								
4910	40 (1)	F	Clear, acrylic construction for joining transparent material.	Multi-purpose Acrylic	300°F (149°C)	200°F (93°C)	High	High	Med	Bond flexible vinyl banners.
4941	45 (1.1)	A	Gray, closed-cell acrylic foam carrier. Good adhesion to many painted metals. Plasticizer resistant. UL 746C.							
4956	62 (1.6)	A								

See key on page 74.

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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 74.

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 74.

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.
Primer UPUV	See SDS	Approx. 5% by weight	3.58 lbs/gal (429g/L)	Clear	-5°F (-21°C)	600 ft ² /gal (211m ² /L)	Improved environmental, health, and safety profile compared to 3M™ Tape Primer 94.

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