

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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