



3M™ VHB™ Tape 5980

Product Description

3M™ VHB™ Tapes 5980-015, 5980-020, 5980-025, 5980-030 are thin foam tapes with pressure sensitive adhesive on both sides and are used for bonding a wide range of high and low surface energy materials in the electronics industry. This specially formulated foam provides impact resistance and high bond strength while providing good conformability.

These tapes are provided in double liner format. There is a 0.075 mm (0.003 in) PET liner on one side and a 0.05 mm (0.002 in) clear PET liner on the other side.

Key Features

- Thin foam tapes with pressure sensitive adhesive (PSA) on both sides
- Good impact resistance and conformability
- High bond strength

Product Construction/Material Description

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

3M™ VHB™ Tape 5980	
Property	Value
Adhesive	Modified Acrylic
Thickness	5980-015: 0.15 mm (0.006 in) 5980-020: 0.20 mm (0.008 in) 5980-025: 0.25 mm (0.010 in) 5980-030: 0.30 mm (0.012 in)
Density	960 kg/m ³ (60 lb/ft ³)
Liners	Liner 1: 0.075 mm (0.003 in) Liner 2: 0.05 mm (0.002 in)
Tape Color	Black

Applications

- Lens bonding
- LCM attachment
- Touch panel bonding
- Bezel bonding

Application Techniques

For maximum bond strength the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Consult manufacturer's directions for use and precautions when using cleaning solvents. Ideal tape application is accomplished when temperature is between 21° and 38°C (between 70° and 100°F) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended.

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Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the product.

3M™ VHB™ Tape 5980	
Property	Value
90 Degree Peel Adhesion for Stainless Steel (72 Hour Dwell)	5980-015: 140 N/100 mm (8 lb/inch) 5980-020: 155 N/100 mm (9 lb/inch) 5980-025: 175 N/100 mm (10 lb/inch) 5980-030: 210 N/100 mm (12 lb/inch)
Static Shear for Aluminum Foil Stainless Steel	22°C: 1000 g/0.5 sq in (holds 10,000 min.) 70°C: 250 g/0.5 sq in (holds 10,000 min.)
Temperature Resistance	Short Term (Minutes, Hours): 93°C (200°F) Long Term (Days, Weeks): 70°C (158°F)
Available Sizes	Standard Length: 65.8 meters (72 yards) Slitting Tolerance: +/- 0.8 mm (1/32 in) Core size (ID): 76.2 mm (3.0 in)

Storage and Shelf Life

The shelf life of 3M™ VHB™ Tape 5980 is 24 months from the date of manufacture when stored in the original packaging materials at 4°C to 38°C (40°F to 100°F) and 0-95% relative humidity. The optimum storage conditions are 22°C (72°F) and 50% relative humidity.

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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Electronics Device Bonding

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