



3M™ VHB™ Tape 5980, 5980WT

Product Description

3M™ VHB™ Tapes 5980-015, 5980-020, 5980-025, 5980-030 (black) and 5980WT-015, 5980WT-020, 5980WT-025, 5980WT-030 (white) 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, 5980WT | |
|--------------------------------|--|
| Property | Value |
| Adhesive | Modified Acrylic |
| Thickness | 5980(WT)-015: 0.15 mm (0.006 in) 5980(WT)-020: 0.20 mm (0.008 in) 5980(WT)-025: 0.25 mm (0.010 in) 5980(WT)-030: 0.30 mm (0.012 in) |
| Density | 910 kg/m ³ (57 lb/ft ³) |
| Thickness Tolerance: (approx.) | +/- 15% |
| Liners | Liner 1 (tight): 0.075 mm (0.003 in) Liner 2 (easy): 0.05 mm (0.002 in) |
| Tape Color | 5980 Black, 5980WT White |

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.

3M™ VHB™ Tape 5980, 5980WT

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, 5980WT | |
|---|--|
| Property | Value |
| 90 Degree Peel Adhesion for Stainless Steel (72 Hour Dwell) (Modified ASTM D-3330) | 5980(WT)-015: 140 N/100 mm (8 lb/inch) 5980(WT)-020: 155 N/100 mm (9 lb/inch) 5980(WT)-025: 175 N/100 mm (10 lb/inch) 5980(WT)-030: 210 N/100 mm (12 lb/inch) |
| Static Shear for Aluminum Foil Stainless Steel (Modified ASTM D-3654) | 22°C: 750 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(WT) 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.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M Product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



Electronics Device Bonding

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550
877-369-2923 (Fax)
www.3M.com/VHB

3M is a trademark of 3M Company.
Please recycle.
©3M 2017. All rights reserved.