



# VHB™ Acrylic Foam Tape

5925 • 5952 • 5962

Technical Data

August, 2002

## Product Description

3M™ VHB™ Acrylic Foam Tapes 5925, 5952 and 5962 are double coated pressure sensitive adhesive tapes for bonding a wide variety of substrates including lower surface energy materials such as powder coated paints and plastics. The foam is conformable to increase contact with surfaces.

## Construction

|                   |                            |  |
|-------------------|----------------------------|--|
| Adhesive:         | Synthetic                  |  |
| Adhesive Carrier: | Acrylic Foam (closed cell) |  |
| Thickness:        | <b>5925</b>                | 0.025 in. (0.64 mm)                              |
|                   | <b>5952</b>                | 0.045 in. (1.1 mm)                               |
|                   | <b>5962</b>                | 0.062 in. (1.55 mm)                              |
| Density:          | <b>5925</b>                | 37 lb./ft. <sup>3</sup> (590 kg/m <sup>3</sup> ) |
|                   | <b>5952</b>                | 37 lb./ft. <sup>3</sup> (590 kg/m <sup>3</sup> ) |
|                   | <b>5962</b>                | 40 lb./ft. <sup>3</sup> (640 kg/m <sup>3</sup> ) |
| Liner:            | Red polyethylene film      |  |
| Tape Color:       | Black                      |  |

## 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.**

|                              |  |  |
|------------------------------|--|--|
| Peel Adhesion:               | <b>5925</b>  | 17 lb./in. width (300 N/100 mm)        |
| (stainless steel)            | <b>5952</b>  | 20 lb./in. width (350 N/100 mm)        |
|                              | <b>5962</b>  | 20 lb./in. width (350 N/100 mm)        |
| Normal Tensile:              | <b>5925</b>  | 90 lb./in. <sup>2</sup> (620 kPa)      |
| (aluminum T-block)           | <b>5952</b>  | 90 lb./in. <sup>2</sup> (620 kPa)      |
|                              | <b>5962</b>  | 90 lb./in. <sup>2</sup> (620 kPa)      |
| Dynamic Shear:               | <b>5925</b>  | 90 lb./in. <sup>2</sup> (620 kPa)      |
| (stainless steel)            | <b>5952</b>  | 80 lb./in. <sup>2</sup> (550 kPa)      |
|                              | <b>5962</b>  | 80 lb./in. <sup>2</sup> (550 kPa)      |
| Static Shear:                | 72°F (22°C)  | 1500 g/0.5 sq. in. (holds 10,000 min.) |
| (stainless steel)            | 158°F (68°C)   | 500 g/0.5 sq. in. (holds 10,000 min.)  |
| (stainless steel)            | 200°F (93°C)   | 500 g/0.5 sq. in. (holds 10,000 min.)  |
|                              | 250°F (121°C)  | 250 g/0.5 sq. in. (holds 10,000 min.)  |
| Solvent Resistance:          | High   |  |
| Shelf Life:                  | 24 months from date of manufacture<br>(stored in original cartons, 70°F [21°C]/50% RH) |  |
| Temperature Resistance:      |  |  |
| Short Term: (minutes, hours) | 300°F (149°C)  |  |
| Long Term: (days, weeks)     | 250°F (121°C)  |  |

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|                        |                     |             |                     |
|------------------------|---------------------|-------------|---------------------|
| <b>Available Sizes</b> | Standard Length:    | <b>5925</b> | 72 yards (65.8 m)   |
|                        |                     | <b>5952</b> | 36 yards (32.9 m)   |
|                        |                     | <b>5962</b> | 36 yards (32.9 m)   |
|                        | Minimum Width:      |             | 1/4 in. (6.4 mm)    |
|                        | Slitting Tolerance: |             | ± 1/32 in. (0.8 mm) |
|                        | Core Size (ID):     |             | 3.0 in. (76.2 mm)   |

## Application Guidelines

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

## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit [www.3M.com/adhesives](http://www.3M.com/adhesives). Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

## Certification/Recognition

**MSDS:** 3M has not prepared an MSDS for these products which are not subjected to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

**TSCA:** These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

## Important Notice

User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

## Limited Warranty

3M warrants for 24 months from the date of manufacture that 3M™ VHB™ Tape will be free of defects in material and manufacture. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty does not cover damage resulting from the use or inability to use 3M™ VHB™ Tape due to misuse, workmanship in application, or application or storage not in accordance with 3M recommended procedures.

## Limitation of Remedies and Liability

If the 3M™ VHB™ Tape is proved to be defective within the warranty period stated above. THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M™ VHB™ TAPE. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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