



VHBTM Acrylic Foam Tape

5816-030

Technical Data Sheet

Temporary 2013.12

Product Description

VHBTM tapes are double coated acrylic foam with acrylic pressure sensitive adhesive on both side, and have excellent static shear, peel adhesion and resistance to solvents, UV light and elevated temperature. 5816-030 is the thinner type of VHBTM compare to conventional type and are suitable for the application which requires thinner bonding thickness to reduce a space. The tape is suitable for bonding metals and other high surface energy materials.

Construction

Adhesive: General Purpose Acrylic

Adhesive Carrier: Acrylic Foam (close cell)

Density: 820 kg/m³

Tape Number	Color	Thickness (mm)	Liner
5816-030	Black	0.30	Clear PET

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

(Stainless steel
90 degree peel) 2.6N/mm

Normal Tensile

(alum T-block) 0.75MPa

Static Shear Strength

1000g @ 22°C
weight held for 10,000 mins to stainless
500g @ 70°C
steel with ½ sq in (3.23 sq cm) overlap

Solvent Resistance:

High

Shelf Life:

24 months from date of manufacture
(Best stored in original cartons, 70°F (21 °C)/50%RH)

Temperature Resistance:

Long Term: (days, weeks)	200°F (93°C)
Short Term: (minutes, hours)	300°F (149°C)

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5816-025

Application Guidelines

For maximum bond strength, the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. 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. Consult manufacturer's directions for use and precautions when using cleaning solvents.

Important Notice

The statements and technical information contained herein are based on tests and data which 3M believes to be reliable, but the accuracy or completeness of such statements and technical information is not guaranteed. User is responsible for determining whether a specific 3MTM VHBTM Tape 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.

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