

3M[™] VHB[™] Tape 5930

Product Data Sheet

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Product Description

3M[™] VHB[™] Acrylic Foam Tapes 5930 is a pressure sensitive adhesive tape for bonding a wide range of materials, including many paints and lower surface energy plastics in addition to metals and other plastics. The foam is conformable to increase contact with the surfaces. This tape is similar to other products in the 3M[™] VHB[™] Tape 5952 family except thickness.

Construction

	VHB Tape 5930
Tape Thickness	0.8 mm
Release Liner	Red Polyethylene Film
Tape Colour	Black
Foam Density	590 kg/m ³
Adhesive Type	Modified Acrylic
Adhesive Carrier	Very Conformable Acrylic Foam (closed cell)

Performance Characteristics

Peel Adhesion (stainless steel) Based on ASTM D3330 ¹	315 N/100 mm
Temperature Performance Short Term: (minutes, hours) Long Term: (days, weeks)	300°F (149°C) 250°F (121°C)
Static Shear Strength (stainless steel) ASTM D3654 ²	72°F (22°C) 1000 g/0.5 sq. in. (holds 10,000 min.) 158°F (70°C) 500 g/0.5 sq. in. (holds 10,000 min.) 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.)
Normal Tensile (aluminium T-block) ASTM D-897 ³	90 lb./in.2 (620 kPa)
Dynamic Shear (stainless steel) ASTM D-1002 ⁴	90 lb./in.2 (585 kPa)
Solvent Resistance	High

¹ 90° Peel Adhesion - Based on ASTM D3330 -To stainless steel, room temperature, jaw speed 12 in/min (305 mm/min). Average force to remove is measured.

² Static Shear - ASTM D3654 - To stainless steel, tested at various temperatures and

gram loadings. 0.5 in₂ (3.22 cm₂). Will hold listed weight for 10,000 minutes (approx 7 days). Conversion: 1500 g/0.5 in₂ equals 6.6 lb/in₂; 500 g/0.5 in₂ = 2.2 lb/in₂.

³ **Normal Tensile** (T-Block Tensile) - ASTM D-897 - To aluminium, room temperature, 1 in₂ (6.45 cm₂), jaw speed 2 in/min (50 mm/min.) Peak force to separate is measured.

⁴ **Dynamic Overlap Shear** - ASTM D-1002 - To stainless steel, room temperature, 1 in₂ (6.45 cm₂), jaw speed 0.5 in/min (12.7 mm/min.) Peak force to separate is measured.

Application Guidelines

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 70° and 100°F (between 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.

Storage

The optimum storage condition of 3M VHB 5930 is 72°F (22°C) and 50% relative humidity.

Shelf Life

3M VHB 5930 has a shelf life of 24 months from date of manufacture when stored at 40° to 100°F (4° to 38°C) and 0-95% relative humidity.

For Additional Information

To request additional product information or to arrange for sales assistance, please see below for contact details.

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**3M Svenska AB
Industri**

Bollstanäsvägen 3
191 89 Sollentuna
Tel: 08-92 21 00
Fax: 08-92 22 88
E-post:
kundservice@mmm.com
www.3m.se/tejp

**3M a/s
Industri**

Hannemanns Allé 53
2300 København S
Tlf.: 43 48 01 00
Fax.: 43 20 15 65
E-mail:
dkindustri@mmm.com
www.3Mindustri.dk

**3M Norge AS
Avd. Industri**

Hvamveien 6
2013 Skjetten
Tel: 0 63 84
Fax: 63 84 17 88
E-post:
Kundeservice@mmm.com
www.3M.no/tape

**Suomen 3M Oy
Teollisuustuotteet**

PL 600
Keilaranta 6
02151 Espoo
Puh: 09-525 21
Fax: 09-525 2279
<http://www.3M.fi/teollisuus>