



# Technical Data Sheet

## 3M™ Venture Tape™ Double Coated Foam Tape VG-516B

### Product Description

3M™ Venture Tape™ Double Coated Foam Tape VG-516B is a 1/16" thick black closed cell, crosslinked polyethylene foam coated on both sides with a general purpose rubber based adhesive with a white kraft liner.

### Technical Information Note

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

### Typical Physical Properties

Attribute Name	Value
Foam Color	Black
Adhesive Carrier	Closed Cell, Crosslinked Polyethylene Foam
Foam Density	48 kg/m <sup>3</sup> (3 lb/ft <sup>3</sup> )
Adhesive Type	Rubber

Attribute Name	Test Method	Test Condition	Value
Total Tape Thickness	ASTM D3652		1.679 mm (66.10 mil)
Adhesive Thickness	PSTC-133	Backside	0.046 mm (1.8 mil)
Adhesive Thickness	PSTC-133	Faceside	0.046 mm (1.8 mil)
Carrier Thickness	PSTC-133		1.588 mm (62.5 mil)
Liner			White Kraft

### Typical Performance Characteristics

Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Attribute Name	Test Method	Substrate	Value
90° Peel Adhesion	ASTM D3330	Stainless Steel	22.3 N/25mm (5.1 lb/in) <sup>1</sup>
Normal Tensile	ASTM D897	Aluminum	403 kPa (58.5 lb/in <sup>2</sup> ) <sup>2</sup>
Overlap Shear Strength	ASTM D1002, ISO 4587	Stainless Steel	315 kPa (45.7 lb/in <sup>2</sup> ) <sup>3</sup>

<sup>1</sup> 300 mm/min (12 in/min)

<sup>2</sup> 6.45 cm<sup>2</sup> (1 in<sup>2</sup>), Jaw Speed 51 mm/min (2 in/min)

<sup>3</sup> 6.45 cm<sup>2</sup> (1 in<sup>2</sup>), Jaw Speed 12.7 mm/min (0.5 in/min)

### Static Shear

Substrate: Stainless Steel

Temperature: 23 °C (73 °F)

Test Condition: 1000 g

Dwell Time: 72 h

Backing: 4 mil PET

Attribute Name	Test Method	Value
Static Shear	ASTM D3654	1,000 g <sup>1</sup>

<sup>1</sup> 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

## **Handling/Application Information**

### **Application Examples**

- Signs, Nameplates and Plaques
- Point of Purchase and other Displays
- Plastic Hooks, Racks and Dispensers
- Wire and Cable Clips

### **Application Techniques**

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or water. Note: Be sure to follow the manufacturer's precautions and directions for use when using cleaning solvents.
- Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily.

## **Automotive Disclaimer**

### **Select Automotive Applications:**

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

## **Information**

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

**Product Selection and 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 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, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 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 for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

**Disclaimer:** 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit [www.3M.com](http://www.3M.com).

3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
[3M.com/iatd](http://3M.com/iatd)