



Technical Data Sheet

3M™ Venture Tape™ Double Coated Foam Tape VG-516W

Product Description

3M™ Venture Tape™ Double Coated Foam Tape VG-516W is a 1/16" thick white 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	White
Adhesive Carrier	Closed Cell, Crosslinked Polyethylene Foam
Foam Density	48 kg/m ³ (3 lb/ft ³)
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	21 N/25mm (4.8 lb/in) ¹
Normal Tensile	ASTM D897	Aluminum	404 kPa (58.6 lb/in ²) ²
Overlap Shear Strength	ASTM D1002, ISO 4587	Stainless Steel	361 kPa (52.4 lb/in ²) ³

¹ 300 mm/min (12 in/min)

² 6.45 cm² (1 in²), Jaw Speed 51 mm/min (2 in/min)

³ 6.45 cm² (1 in²), 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 ¹

¹ 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.

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