



Technical Data Sheet

3M™ High Performance Double Coated Tape 9086





Last Revision Date: May, 2022

English

Product Details

Regulatory Info/SDS

Product Description

 $3M^{\text{TM}}$ Double Coated Tapes with $3M^{\text{TM}}$ Adhesive 375 provides a high level of adhesive peel and shear performance. The adhesive system used on these products provides good adhesion to both high and low surface energy substrates. The excellent initial tack ensures that a bond of good integrity is achieved soon after application.

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	Test Method	Value
Color		Translucent
Adhesive Type		Modified Acrylic
Adhesive Carrier		Tissue
Total Tape Thickness	ASTM D3652	0.019 mm (7.5 mil)
Liner		Paper (Glassine)
Liner Thickness		0.07 mm (3 mil)
Primary Liner Color		White with Black 3M Logo

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 22 °C (72 °F) Test Condition: Faceside Dwell Time: 72 h

Backing: 2 mil Aluminum Foil Test Method: ASTM D3330

Substrate	Value
ABS	15 N/cm (137 oz/in) ¹
Glass	16 N/cm (146 oz/in) ¹
High Density Polyethylene (HDPE)	7 N/cm (68 oz/in) ¹
High Pressure Laminate	13 N/cm (119 oz/in) ¹
Polycarbonate (PC)	18 N/cm (162 oz/in) ¹
Stainless Steel	16 N/cm (146 oz/in) ¹

^{1 12} in/min (300 mm/min)

Static Shear

Test Method: ASTM D3654

Temperature	Test Condition	Value
22 °C (72 °F)	1000g	10,000 min ¹
70 °C (158 °F)		10,000 min ¹

¹ 1 in x 1 in sample area, test terminated after 10,000 minutes

Attribute Name	Value
Short Term Temperature Resistance	120 °C (248 °F) ¹
Long Term Temperature Resistance	85 °C (185 °F) ²

- Short Term (minutes, hour)
- ² Long Term (day, weeks)

Attribute Name	Value
Plasticizer Resistance	Good ¹

It is suggested that an evaluation is conducted prior to use to ensure compatibility. Dwell of 10 days at 158°F (70°C) will usually accelerate any potential plasticizer problems. Plasticizers typically found in materials like PVC and some rubbers.

Typical Environmental Performance

Attribute Name	Value
Solvent Resistance	Good
UV Resistance	Excellent

Handling/Application Information

Application Examples

- POP Displays
- Plastic Extrusions
- Metal Fabrication
- Blister Packs and Packaging
- Sports Equipment
- Badge and Nameplates
- Indoor/Outdoor Signs
- Fabric and Leather Stitching
- Blind Manufacturers
- Print Finishing
- Furniture Trim
- Splicing

Storage and Shelf Life

Store in original carton at 70°F (21°C) and 50% relative humidity. If stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

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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ISO Statement

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