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English-US

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Technical Data Sheet

3M™ Double Coated Tape 92015

Product Details

Regulatory Info/SDS

Product Description

Finite Element Analysis (FEA)data is available for this product at: **3m.com/FEA**

3M™ Double Coated Tapes with 3M™ Adhesive 200MP feature a thin polyester film for dimensional stability and improved handling with ease of die-cutting and laminating. The 3M adhesive 200MP provides exceptional temperature and chemical resistance.

Product Features

• A thin polyester carrier in the products provides dimensional stability and improved handling with ease of die-cutting and lamination compared to adhesive transfer tapes.
• 3M™ Adhesive 200MP provides exceptional temperature and chemical resistance and withstands tough application environments.

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	Test Condition	Value
Adhesive Carrier			Clear Polyester
Adhesive Type			200MP Acrylic
Adhesive Thickness		Faceside	0.069 mm (2.7 mil) [1]
Carrier Thickness			0.012 mm (0.5 mil)
Adhesive Thickness		Backside	0.069 mm (2.7 mil) [2]
Total Tape Thickness	ASTM D3652		0.15 mm (5.9 mil)
Liner Print			200MP
Liner			58# Polycoated Kraft Paper (PCK)
Liner Thickness			0.11 mm (4.2 mil)
Primary Liner Color			Tan

[1] Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

[2] Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 22 °C (72 °F)
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Substrate	Value
15 min	ABS	6.6 N/cm (60 oz/in) [1]
15 min	Polycarbonate (PC)	8.2 N/cm (75 oz/in) [1]
15 min	Polypropylene (PP)	2.2 N/cm (20 oz/in) [1]
15 min	Stainless Steel	7.7 N/cm (70 oz/in) [1]

Dwell Time	Substrate	Value
72 h	ABS	8.8 N/cm (80 oz/in) [1]
72 h	Polycarbonate (PC)	10.4 N/cm (95 oz/in) [1]
72 h	Polypropylene (PP)	2.7 N/cm (25 oz/in) [1]
72 h	Stainless Steel	16.4 N/cm (150 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)	500g	>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	149 °C (300 °F) [1]
Long Term Temperature Resistance	93 °C (200 °F) [2]

[1] Short Term (minutes, hour)

[2] Long Term (day, weeks)

Attribute Name	Value
Additional Test notes	Not recommended for low energy plastics (polypropylene, polyethylene). For these surfaces, please refer to 3M™ Adhesive 300, 300LSE, 350, 360 and 300MP.

Typical Environmental Characteristics

Environmental Resistance

Humidity Resistance: High humidity has minimal effect on adhesive performance. No significant reduction in bond strength is observed after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

UV Resistance: When properly applied, nameplates and decorative trim parts are not adversely affected by exposure.

Water Resistance: Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.

Temperature Cycling Resistance: High bond strength is maintained after cycling four times through:
4 hours at 158°F (70°C)
4 hours at -20°F (-29°C)
4 hours at 73°F (22°C)

Chemical Resistance: When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids, and alkalis.

Electrical and Thermal Properties

Attribute Name	Value
Breakdown Voltage	7,600 V

Handling/Application Information

Application Examples

• Graphic overlays
• Nameplates
• Appliques
• Decorative Trim
• Thermal and sound damping applications in the electronics and appliance industry.
• Attachment to plastics, (ABS, PC).

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. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*
*Note: Carefully read and follow the manufacturer's precautions and directions for use when using 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. However, once properly applied, low temperature holding is generally satisfactory.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Width	Value
Core Size (ID)		76.2 mm (3 in)
Maximum Available Width		54 in
Maximum Length	1/4 in to 1 in widths	132 m (144 yd)
Maximum Length	1 in to 54 in	329 m (360 yd)
Normal Slitting Tolerance		± 0.8 mm (± 1/32 in)
Note		Subject to Minimum Order Requirements

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

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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