Double Coated Tape with Adhesive 200MP

92015

Technical Data **January, 2011**

Product Description

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.

Construction Information

Product Number	Faceside[1] Adhesive Type Thickness	Carrier Type Thickness	Backside[2] Adhesive Type Thickness	Liner Color, Type, Caliper[3]	Total Thickness (w/o liner)
3M™ Double Coated Tape 92015	200MP 0.069 mm (2.7 mil)	Clear Polyester 0.012 mm (0.5 mil)	200MP 0.069 mm (2.7 mil)	Tan, 58# Polycoated Kraft 0.11 mm (4.2 mil)	0.15 mm (5.9 mil)

Note 1: Faceside (FS) adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed.

Note 3: The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

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Typical Physical Properties and Performance Characteristics

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

	3M™ Double Coated Tape			
Product Number	**92015**			
Adhesive	200MP			
Tape Thickness	0.15 mm			
Breakdown Voltage	7600 volts			
Dielectric Strength	1300 volts/mil			
Adhesion 15 min dwell @ RT Modified ASTM D-3330 180 degree peel 2 mil Al foil backing		oz/in	N/cm	kg/25.4mm
	SS	70	7.7	2.0
	PC	75	8.2	2.1
	ABS	60	6.6	1.7
	PP	20	2.2	0.6
Adhesion 72 hr dwell @ RT Modified ASTM D-3330 180 degree peel 2 mil Al foil backing		oz/in	N/cm	kg/25.4mm
	SS	150	16.4	4.3
	PC	95	10.4	2.7
	ABS	80	8.8	2.3
	PP	25	2.7	0.7
Shear Strength at RT Modified ASTM D-3654 1 inch^2 sample size 1000 grams	10,000 Minutes			
Shear Strength at 158°F (70°C) Modified ASTM D-3654 1 inch^2 sample size 500 grams	10,000 Minutes			

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

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.

Available Sizes

Roll length, width, slitting tolerance, core size.

Product	**3M™ Double Coated Tape 92015**
Maximum Length in.:	
1/4" to 1"	144 yds. (132 m)
1" to 54"	360 yds. (329 m)
Normal Slitting Tolerance:	± 1/32 in. (0.08 mm)
Core Size (ID):	3.0 in. (76.2 mm)
Maximum Width:	54"

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Temperature Resistance	Long Term (days, weeks): Short Term (minutes, hours):	250°F (121°C) 300°F (149°C)

Humidity Resistance No adverse effect on the bond after exposed to 100% relative humidity at 100°F (38°C).

U.V. Resistance Adhesive is resistant to oxidation and ozone when exposed to air or ultraviolet light.

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.

Environmental Performance

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.

Application Ideas

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

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Storage

Store in original cartons at 70°F (21°C) and 50% relative humidity.

Shelf Life

If stored under proper conditions, this product retains its performance and properties for two years from date of manufacture.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001:2008

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