

March, 2016

3M™ Double Coated Acrylic Tape 9088-200

Product Description

3M™ Double Coated Tapes with 3M™ Modified Acrylic Adhesive 375 provides an excellent balance of adhesive peel and shear performance. The adhesive system used on this product provides good adhesion to both high and low surface energy substrates. The initial tack provided 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

Property	Values		Method	Test Name	Notes
Total Tape Thickness	0.2 mm	7.9 mil	ASTM D3652		
Carrier Thickness	0.012 mm	0.5 mil			
Adhesive Type	Acrylic			Faceside	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.
Adhesive Type	Acrylic			Backside	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
Adhesive Carrier	PET (Polyester)				
Liner	58# Glassine				
Liner Thickness	0.08 mm	3.2 mil			

Adhesive Thickness		Test Name	Notes
0.094 mm		Backside	The caliper listed is based on a calculation from manufacturing controlled adhesive coat weight. While past data pages have listed nominal thicknesses of 1 and 2 mils, the coat weight (and theoretical caliper) has not changed.
3.7 mil		Backside	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
0.094 mm	3.7 mil	Faceside	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

Property: Adhesive Thickness

Typical Performance Characteristics

90° Peel Adhesion		Notes	Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Environmental Condition	Substrate
17.4 N/cm		12 in/min (300 mm/min) Stainless Steel 72 hr dwell @ 72 °F (23 °C) & 50% RH						
159 oz/in		12 in/min (300 mm/min)	72	hr	23C	72F	50%RH	Stainless Steel

Table continued on next page

Typical Performance Characteristics (continued)

90° Peel Adhesion		Notes	Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Environmental Condition	Substrate
14.8 N/cm	135 oz/in	12 in/min (300 mm/min)	72	hr	23C	72F	50%RH	ABS
16.7 N/cm	153 oz/in	12 in/min (300 mm/min)	72	hr	23C	72F	50%RH	Glass
18.2 N/cm	166 oz/in	12 in/min (300 mm/min)	72	hr	23C	72F	50%RH	Polycarbonate (PC)
6 N/cm	55 oz/in	12 in/min (300 mm/min)	72	hr	23C	72F	50%RH	High Density Polyethylene (HDPE)

Property: 90° Peel Adhesion
Method: ASTM D3330
Backing: 2 mil Aluminum Foil

Property	Values	Test Condition	Notes
Static Shear	10000 min	1000 g load @ Room Temperature	1in x 1in size; test terminated after 10,000 minutes
Static Shear	10000 min	500 g load @ 70°C (158°F)	1in x 1in size; test terminated after 10,000 minutes

Available Sizes

Master Width			
1220 mm	55 yd	50 m	48 in

Property: Master Width
notes: More sizes may be available. Please call 800-223-7427 or talk to your local 3M representative for more information.

Environmental Resistance

UV Resistance – When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.
Bond Build-up: The bond strength of 3M™ Adhesive 375 increases as a function of time and temperature.
Temperature/Heat Resistance: Adhesive 375 is usable for short periods (minutes, hours) at temperatures up to 300°F (150°C) and for intermittent longer periods (days, weeks) up to 195°F (90°C).
Lower Temperature Service Limit: -10°F (-23°C).

Handling/Application Information

Application Ideas

- Point of Purchase Displays
- Indoor/Outdoor Signage
- Paper Bonding and Packaging
- Splicing
- Mounting of Plastic Parts
- Mounting of Furniture and Decorative Trims

Storage and Shelf Life

It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity.
If stored properly, product retains its performance and properties for 24 months from date of manufacture.

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Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-High-Performance-Double-Coated-Tape-9088-200?N=5002385+3292678975&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9088-200

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Bottom Matter Images

[Image 4]
[Image 5]

Recognition/Certification

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements

SDS: 3M has not prepared a SDS for this product which is not subjected to the SDS requirements of the Occupational Safety and Health Administration’s Hazard Communication Standard, 29 C.F.R.1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

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Information

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