

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		Attribute Modifier	Notes
Total Tape Thickness without liner	0.2 mm	7.9 mil		
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		Attribute Modifier
0.094 mm	3.7 mil	Faceside
0.094 mm	3.7 mil	Backside

Property: Adhesive Thickness

notes: Adhesive 1 is on the interior of the roll, exposed when unwound, Adhesive 2 is on the exterior of the roll, exposed when liner is removed. The thickness listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc. While past data pages have listed nominal thicknesses, the coat weight (and theoretical caliper) has not changed.

Typical Performance Characteristics

90° Peel Adhesion		Substrate
17.4 N/cm	159 oz/in	Stainless Steel
14.8 N/cm	135 oz/in	ABS
16.7 N/cm	153 oz/in	Glass
18.2 N/cm	166 oz/in	Polycarbonate (PC)

Table continued on next page

Typical Performance Characteristics (continued)

90° Peel Adhesion		Substrate
6 N/cm	55 oz/in	High Density Polyethylene (HDPE)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Dwell/Cure Time: 72
 Dwell Time Units: hr
 Temp C: 22C
 Temp F: 72F
 Environmental Condition: 52%RH
 Backing: 2 mil Aluminum Foil
 notes: 12 in/min (300 mm/min)

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.

Trademarks

3M is a trademark of 3M Company.

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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

Family Group

	9086	9087	9088 to 200	9088F200
Adhesive Thickness (mm) Attribute Modifier: Faceside			0.094	0.094
Adhesive Thickness (mm) Attribute Modifier: Backside			0.094	0.094
Adhesive Type Attribute Modifier: Faceside			Acrylic	Acrylic
Adhesive Type Attribute Modifier: Backside			Acrylic	Acrylic
Total Tape Thickness without liner (mm)	0.019	0.26	0.2	0.2
Carrier Thickness (mm)		0.038	0.012	0.012
Adhesive Carrier	Tissue	PVC	PET (Polyester)	PET (Polyester)
Liner	Paper (Glassine)	Paper (Glassine)	58# Glassine	Polypropylene Film
Liner Thickness (mm)	0.07	0.07	0.08	0.08

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.

Note: One of 3M's core values is to respect our social and physical environment. 3M is committed to comply with ever-changing, global, regulatory and consumer environmental, health, and safety (EHS) requirements. As a service to our customers, 3M is providing information on the regulatory status of many 3M products. Further regulation information including that for OSHA, USCPSI, FDA, California Proposition 65, READY and RoHS, can be found at 3M.com/regs.

Information

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