

March, 2007

3M™ High Performance Double Coated Tape 9087

Product Description

3M™ Double Coated Tapes with 3M™ 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.



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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	
Color	White	
Total Tape Thickness without liner	0.26 mm	10.2 mil
Carrier Thickness	0.038 mm	1.5 mil
Adhesive	Modified Acrylic	
Adhesive Carrier	PVC	
Liner	Paper (Glassine)	
Liner Thickness	0.07 mm	3 mil
Liner Color	White with Green 3M Logo	

Typical Performance Characteristics

Relative High Temperature Operating Ranges		Test Condition
85 °C	185 °F	Short Term (minutes, hours)
70 °C	158 °F	Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

Faceside Adhesive 180° Peel Adhesion		Substrate
16 N/cm	142 oz/in	Stainless Steel
16 N/cm	146 oz/in	Polycarbonate (PC)
18 N/cm	164 oz/in	Glass
16 N/cm	146 oz/in	ABS
9 N/cm	82 oz/in	High Density Polyethylene (HDPE)
13 N/cm	119 oz/in	High Pressure Laminate

Property: Faceside Adhesive 180° Peel Adhesion

Method: ASTM D3330

Backing: Aluminum Foil

Property	Values	Method	Test Condition	Notes
Static Shear	10,000 min	ASTM D3654	1000 g @ Room Temperature	1 in ² sample size

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Typical Performance Characteristics (continued)

Property	Values	Method	Test Condition	Notes
Static Shear	10,000 min	ASTM D3654	500 g @ 70°C (158°F)	1 in ² sample size
Solvent Resistance	Good			
UV Resistance	Excellent			
Plasticizer Resistance	Good			All products show good resistance to plasticizer migration. However due to the wide range of plasticizers available we strongly suggest that an evaluation is conducted prior to use to ensure compatibility. Sampling substrates with tape applied for 10 days at 158°F (70°C) will usually accelerate any potential problems. Plasticizers are typically found in materials such as polyvinyl chloride and some rubber products.

Handling/Application Information**Application Ideas**

- 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.

Trademarks

3M is a trademark of 3M Company.

References**Safety Data Sheet (SDS)**

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9087

3M™ High Performance Double Coated Tape 9087

Family Group

	9086	9087	9088 to 200	9088F200
Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours)	120	85		
Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks)	85	70		
Color	Translucent	White		
Total Tape Thickness without liner (mm)	0.019	0.26	0.2	0.2
Carrier Thickness (mm)		0.038	0.012	0.012
Adhesive	Modified Acrylic	Modified Acrylic		
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
Liner Color	White with Black 3M Logo	White with Green 3M Logo		Red

ISO Statement

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

Product Selection and Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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