High Performance Double Coated Tapes with Adhesive 375

9086 • 9087 • 9088 • 9088FL

Technical Data **March, 2007**

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.

Construction

Product	Adhesive	Total Tape Thickness w/o Liner	Tape Color	Carrier	Liner Color, Type, Print	Liner Caliper	Tape Color
3M™ Double Coated Tape 9086	Modified Acrylic	7.5 mils (0.19 mm)	Translucent	Tissue –	White Paper (Glassine) with Black 3M Logo	3.0 mils (0.07 mm)	Translucent
3M™ Double Coated Tape 9087	Modified Acrylic	10.2 mils (0.26 mm)	White	PVC 1.5 mils	White Paper (Glassine) with Green 3M Logo	3.0 mils (0.07 mm)	White
3M™ Double Coated Tape 9088	Modified Acrylic	8.3 mils (0.21 mm)	Clear	Polyester 0.5 mils	White Paper (Glassine) with Red 3M Logo	3.0 mils (0.07 mm)	Clear
3M™ Double Coated Tape 9088FL	Modified Acrylic	8.3 mils (0.21 mm)	Clear	Polyester 0.5 mils	Red Polypropylene Film, No Print	3.1 mils (0.08 mm)	Clear

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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 Tapes			
Typical Adhesion		**9086** Oz/in (N/10 mm)	**9087** Oz/in (N/10 mm)	**9088** Oz/in (N/10 mm)	**9088FL** Oz/in (N/10 mm)
180 Degree Peel ASTM D3330 Modified, 2-mil Aluminum Backing (Faceside Adhesion)	**Stainless Steel**	146 (16)	142 (16)	137 (15)	137 (15)
	Polycarbonate	162 (18)	146 (16)	155 (17)	155 (17)
	Glass	146 (16)	164 (18)	128 (14)	128 (14)
	ABS	137 (15)	146 (16)	119 (13)	119 (13)
	HDPE	68 (7)	82 (9)	64 (7)	64 (7)
	High Pressure Laminate	119 (13)	119 (13)	101 (11)	101 (11)
Typical Sheer Performance	**Temperature Weight**	Minutes to Failure	Minutes to Failure	Minutes to Failure	Minutes to Failure
ASTM D3654 modified (1-inch^2 sample size)	72°F (22°C) 1000g	10,000	10,000	10,000	10,000
	158°F (70°C) 500g	10,000	10,000	10,000	10,000
	200°F (93°C) 500g	—	—	10,000	10,000
Temperature Performance	**Continuous (Days/Weeks)**	185°F (85°C)	158°F (70°C)	200°F (93°C)	200°F (93°C)
	Short Term (Hours/Minutes)	248°F (120°C)	185°F (85°C)	300°F (150°C)	300°F (150°C)
Solvent Resistance		Good	Good	Good	Good
UV Resistance		Excellent	Excellent	Excellent	Excellent
Plasticizer Resistance[(1)]		Good	Good	Good	Good

[(1)]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.

Application Ideas

- POP Displays
- Metal Fabrication
- Sports Equipment
- Indoor/Outdoor Signs
- Blind Manufacturers
- Furniture Trim
- Plastic Extrusions
- Blister Packs and Packaging
- Badge and Nameplates
- Fabric and Leather Stitching
- Print Finishing
- Splicing

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Storage

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

Shelf Life

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

Product 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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ISO 9001:2000

This product was manufactured under a quality system registered to ISO 9001:2000 standards.

3M

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