



# High Performance Double Coated Tapes with Adhesive 375

9086 • 9087 • 9088 • 9088FL

Technical Data

June, 2006

**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	.007 inches (0.18 mm)	Translucent	Tissue –	White Paper with Black 3M Logo	.003 inches (0.08 mm)	Translucent
	3M™ Double Coated Tape 9087	Modified Acrylic	.010 inches (0.25 mm)	White	PVC 1.5 mils	White Paper with Green 3M Logo	.003 inches (0.08 mm)	White
	3M™ Double Coated Tape 9088	Modified Acrylic	.008 inches (0.20 mm)	Clear	Polyester 0.5 mils	White Paper with Red 3M Logo	.003 inches (0.08 mm)	Clear
	3M™ Double Coated Tape 9088FL	Modified Acrylic	.008 inches (0.20 mm)	Clear	Polyester 0.5 mils	Red Polypropylene Film, No Print	.0035 inches (0.09 mm)	Clear

# 3M™ High Performance Double Coated Tapes with Adhesive 375

9086 • 9087 • 9088 • 9088FL

## 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.

Typical Adhesion	3M™ Double Coated Tapes					
	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)	<b>Stainless Steel</b>	146 (16)	142 (16)	137 (15)	137 (15)	
	<b>Polycarbonate</b>	162 (18)	146 (16)	155 (17)	155 (17)	
	<b>Glass</b>	146 (16)	164 (18)	128 (14)	128 (14)	
	<b>ABS</b>	137 (15)	146 (16)	119 (13)	119 (13)	
	<b>HDPE</b>	68 (7)	82 (9)	64 (7)	64 (7)	
	<b>High Pressure Laminate</b>	119 (13)	119 (13)	101 (11)	101 (11)	
Typical Sheer Performance	<b>Temperature Weight</b>	Minutes to Failure	Minutes to Failure	Minutes to Failure	Minutes to Failure	
	72°F (22°C) 100g	10,000	10,000	10,000	10,000	
	158°F (70°C) 500g	10,000	10,000	10,000	10,000	
ASTM D3654 modified (1-inch <sup>2</sup> sample size)	200°F (93°C) 500g	—	—	10,000	10,000	
	Temperature Performance	<b>Continuous (Days/Weeks)</b>	185°F (85°C)	158°F (70°C)	200°F (93°C)	200°F (93°C)
		<b>Short Term (Hours/Minutes)</b>	248°F (120°C)	185°F (85°C)	300°F (150°C)	300°F (150°C)
<b>Solvent Resistance</b>	Good	Good	Good	Good		
<b>UV Resistance</b>	Excellent	Excellent	Excellent	Excellent		
<b>Plasticizer Resistance<sup>(1)</sup></b>	Good	Good	Good	Good		

<sup>(1)</sup>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

# 3M™ High Performance Double Coated Tapes with Adhesive 375

9086 • 9087 • 9088 • 9088FL

---

**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.

---

**Warranty and Limited Remedy** Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

---

**Limitation of Liability** Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



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



**Industrial Business**  
**Industrial Adhesives and Tapes Division**  
3M Center, Building 21-1W-10, 900 Bush Avenue  
St. Paul, MN 55144-1000  
800-362-3550 • 877-369-2923 (fax)  
www.3M.com/industrial



*Recycled Paper*  
40% pre-consumer  
10% post-consumer

Printed in U.S.A.  
©3M 2006 70-0709-3995-7 (6/06)