

3M

Double Coated Tape with Adhesive 760

9579

Technical Data

May, 2004

Product Description

3M™ Double Coated Tape 9579 with 3M™ Adhesive 760 is a high-tack, hand-tearable, double coated film tape with a pressure sensitive adhesive on each side of the carrier. The medium firm adhesive features very high adhesion to a variety of surfaces, very good shear holding power and offers one-piece removal from most substrates.

Construction

Faceside ¹ Adhesive Type/Thickness	Carrier Type/ Thickness	Backside ² Adhesive Type/Thickness	Liner Color/ Type/Print	Tape Caliper	Liner Caliper	Tape Color
760/0.003 in. (0.076 mm)	0.003 in. (0.076 mm) HDPE ³	760/0.003 in. (0.076 mm)	White, 62# Densified Kraft, no print	0.009 in. (0.127 mm)	0.004 in. (0.010 mm)	White

Note 1: Faceside adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Note 3: HDPE (High Density Polyethylene).

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.

Adhesion to stainless steel
ASTM D3330 - 90 degree, 2 mil Al foil

- 15 minute RT	80 oz./in. (87 N/100 mm)
- 72 hour RT	82 oz./in. (90 N/100 mm)
- 72 hour 158°F (70°C)	84 oz./in. (92 N/100 mm)

ASTM D3330 - 180 degree, 2 mil Al foil

- 72 hour RT	115 oz./in. (125 N/100 mm)
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Adhesion to other surfaces
ASTM D3330 - 90 degree,
2 mil Al foil, 72 hour RT

Polyester	80 oz./in. (87 N/100 mm)
HDPE	68 oz./in. (74 N/100 mm)
Polycarbonate	100 oz./in. (109 N/100 mm)

Shear Strength - ASTM D3654
modified - (0.5 inch² sample size)

1000 grams at 72°F (22°C)	>10,000 min.
500 grams at 158°F (70°C)	1600 min.

Relative High Temperature
Operating Ranges:

Long Term (days, weeks)	120°F (49°C)
Short Term (minutes, hours)	150°F (66°C)

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Available Sizes	Available Lengths (Subject to Minimum order requirements)	
	Standard	36 yds. (33 m)
Maximum Length		
	1/4 in. to 7/16 in.	180 yds. (165 m)
	1/2 in. and greater	360 yds. (330 m)
Available Widths	1/2 in. (12.7 mm), 3/4 in. (19.1 mm), 1 in. (25.4 mm), 1 1/2 in. (38.1 mm), 2 in. (50.8 mm)	
Custom Widths:		
	Minimum	1/4 in. (6.3 mm)
	Maximum	26 in. (660 mm)
Normal Slitting Tolerance	± 1/32 in. (0.8 mm)	
Core Size (I.D.):	3.0 in. (76.2 mm)	

Features	<ul style="list-style-type: none"> • The high density polyethylene carrier in this product is hand-tearable, and provides dimensional stability and improved handling with ease of die-cutting and lamination compared to adhesive transfer tapes. • 3M™ Adhesive 760 provides high tack adhesion to a variety of substrates, including metals, plastics and glass as well as providing clean removal from many surfaces. • Tape components are in compliance with Title 21 of the code of Federal Regulations (21 CFR) as indirect food additives.
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Application Techniques	<p>Bond strength is very dependent on the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact and thus improves bond strength. To obtain optimum adhesion, the bonding surfaces must be clean, dry, and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*</p> <p>*Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be in compliance with the rules of certain air quality management districts in California; consult applicable rules before use.</p> <p>Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is satisfactory</p>
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Application Ideas	<ul style="list-style-type: none"> • Core starting on metal cores • Splicing rough surface materials or coated materials • Temporary holding to wood, metal, plastic, concrete, linoleum or other surfaces where clean removal is required. Note: Bond strength can exceed coating adhesion that may cause coating delamination upon removal of tape. • Bonding to UV cured coatings • Splicing carpet backing • End tabbing of metal coils
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Application Equipment	For dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.
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Storage	Store in original cartons at 70°F (21°C) and 50% relative humidity.
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Shelf Life	When stored under proper conditions, product retains its performance and properties for 18 months from date of manufacture.
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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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Certification/ Recognition	FDA The components in 3M™ Double Coated Tape 9579 are in compliance with the requirements for use as indirect food additives under Title 21 of the Code of Federal Regulations (21 CFR). The carrier material is regulated under 21 CFR 177.1520 (c) (3.1) and (3.2) (Olefin polymers). All of the adhesive components are regulated under 21 CFR 175.105 (Adhesives). As found in 21 CFR 175.105, there are usage restrictions associated with all adhesives used around food. As indicated in this regulation, the adhesive must either be separated from the food by a functional barrier or used subject to the following:
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- (1) In dry foods: used such that the quantity of adhesive that contacts the packaged dry food does not exceed the limits of good manufacturing practice.
- (2) In fatty and aqueous foods: the quantity of adhesive that contacts the packaged fatty and aqueous food does not exceed the trace amount at the seams and at the edge exposure between packaging laminates that may occur within the limits of good manufacturing practice.

It is the responsibility of the end user to ensure that his or her application is in compliance with these usage restrictions.

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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.
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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

Industrial Business Industrial Adhesives and Tapes Division

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Printed in U.S.A.
©3M 2004 70-0704-8826-0 (5/04)

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