

# 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 <sup>1</sup><br>Adhesive<br>Type/Thickness | Carrier Type/<br>Thickness                   | Backside <sup>2</sup><br>Adhesive<br>Type/Thickness | Liner Color/<br>Type/Print                 | Tape<br>Caliper         | Liner<br>Caliper        | Tape<br>Color |
|--------------|---|--|---|--|-------------------------|-------------------------|---------------|
|              | 760/0.003 in.<br>(0.076 mm)                         | 0.003 in.<br>(0.076 mm)<br>HDPE <sup>3</sup> | 760/0.003 in.<br>(0.076 mm)                         | White, 62#<br>Densified Kraft,<br>no print | 0.009 in.<br>(0.127 mm) | 0.004 in.<br>(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<br>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) |
| Adhesion to other surfaces<br>ASTM D3330 - 90 degree,<br>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<br>modified - (0.5 inch <sup>2</sup> sample size)      |                            |
| 1000 grams at 72°F (22°C)  | >10,000 min.               |
| 500 grams at 158°F (70°C)  | 1600 min.                  |
| Relative High Temperature<br>Operating Ranges:                                     |                            |
| Long Term (days, weeks)  | 120°F (49°C)               |
| Short Term (minutes, hours)  | 150°F (66°C)               |

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|                           |  |                  |
|---------------------------|--|------------------|
| <b>Available Sizes</b>    | 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),<br>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)  |                  |

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- Features**
- 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** 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.\*

**\*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.

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

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- Application Ideas**
- 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:

- (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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**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.

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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**

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



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