

May, 2004

3M™ Double Coated Tape 9579

Product Description

3M™ Double Coated Tape 9579 with 3M™ Synthetic Rubber 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.

Product 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™ Synthetic Rubber 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.



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		Attribute Modifier	Notes
Color	White			
Tape Thickness	0.127 mm	9 mil		
Carrier Thickness	0.076 mm	3 mil		
Adhesive Type	760 Synthetic Rubber		Faceside	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.
Adhesive Type	760 Synthetic Rubber		Backside	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
Adhesive Carrier	HDPE (High Density Polyethylene)			
Liner	White 62# Densified Kraft			
Liner Color	White, no print		Primary	
Liner Thickness	0.1 mm	4 mil		

Adhesive Thickness		Attribute Modifier	Notes
0.076 mm		Backside	The caliper listed is based on a calculation from manufacturing controlled adhesive coat weight. While past data pages have listed nominal thicknesses of 1 and 2 mils, the coat weight (and theoretical caliper) has not changed.
3 mil		Backside	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
0.076 mm	3 mil	Faceside	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

Property: Adhesive Thickness

Typical Performance Characteristics

90° Peel Adhesion		Dwell/Cure Time	Dwell Time Units	Temp C	Temp F	Substrate	Backing	Notes
8.7 N/cm		15	min	22C	72F	Stainless Steel	2 mil Aluminum Foil	
80 oz/in		15	min	22C	72F	Stainless Steel	2 mil Aluminum Foil	12 in/min (300 mm/min)
9 N/cm	82 oz/in	72	hr	22C	72F	Stainless Steel	2 mil Aluminum Foil	12 in/min (300 mm/min)
9.2 N/cm	84 oz/in	72	hr	70C	158F	Stainless Steel	2 mil Aluminum Foil	12 in/min (300 mm/min)
10.9 N/cm	100 oz/in	72	hr	22C	72F	Polycarbonate (PC)	2 mil Aluminum Foil	12 in/min (300 mm/min)
8.7 N/cm	80 oz/in	72	hr	22C	72F	Polyester (PET)	Aluminum Foil	
7.4 N/cm	68 oz/in	72	hr	22C	72F	High Density Polyethylene (HDPE)	2 mil Aluminum Foil	12 in/min (300 mm/min)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Environmental Condition: 52%RH

Relative High Temperature Operating Ranges	Test Condition
66 °C	150 °F Short Term (minutes, hours)
49 °C	120 °F Long Term (days, weeks)

Property: Relative High Temperature Operating Ranges

Property	Values	Method	Test Condition	Notes	Dwell Time	Dwell Units	Temp C	Temp F	Environmental Condition	Substrate	Backing
Static Shear	>10,000 min	ASTM D3654	1000 g @ Room Temperature	0.5 in² sample size							
Static Shear	1600 min	ASTM D3654	500 g @ 70°C (158°F)	0.5 in² sample size							

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Typical Performance Characteristics (continued)

Property	Values		Method	Test Conditions	Notes	Dwell Time	Dwell Units	Temp C	Temp F	Environmental Conditions	Substrate	Backing
180° Peel Adhesion	12.5 N/cm	115 oz/in	ASTM D3330		12 in/min (300 mm/min)	72	hr	22C	72F	52%RH	Stainless Steel	Aluminum Foil

Available Sizes

Property	Values		Attribute Modifier
Note	Subject to Minimum Order Requirements		
Standard Roll Length	33 m	36 yd	
Minimum Available Width	6.3 mm	1/4 in	
Maximum Available Width	660 mm	26 in	
Available Width	12.7, 19.1, 25.4, 38.1, 50.8 mm	1/2, 3/4, 1, 1.5, 2 in	
Normal Slitting Tolerance	±0.8 mm	±1/32 in	
Core Size	76.2 mm	3 in	ID

Maximum Length		Width
330 m	360 yd	1/2 in(12.7mm) and wider
165 mm	180 yd	1/4 to 7/16 in

Property: Maximum Length

Handling/Application Information

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

Handling/Application Information (continued)

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 is 70°F(21°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.

Application Equipment

For dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

Storage and Shelf Life

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

When stored under proper conditions, product retains its performance and properties for 18 months from date of manufacture.

Industry Specifications

Title 21 of the code of Federal Regulations (21 CFR)

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Double-Coated-Tape-9579?N=5002385+3293241519&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9579

Family Group

	9443NP	9589	9579
Adhesive Type Attribute Modifier: Faceside	700 Synthetic Rubber	760 Synthetic Rubber	760 Synthetic Rubber
Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours)	70	70	66
Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks)	49	49	49

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3M™ Double Coated Tape 9579

Family Group (continued)

	9443NP	9589	9579
Adhesive Thickness (mm) Attribute Modifier: Backside	0.051	0.076	0.076
Liner Color Attribute Modifier: Primary	Green Plaid, no print	Green Plaid, no print	White, no print
Adhesive Type Attribute Modifier: Backside	700 Synthetic Rubber	760 Synthetic Rubber	760 Synthetic Rubber
Adhesive Thickness (mm) Attribute Modifier: Faceside	0.051	0.076	0.076
Color	Clear	White	White
Tape Thickness (mm)	0.15	0.23	0.127
Carrier Thickness (mm)	0.051	0.076	0.076
Adhesive Carrier	HDPE (High Density Polyethylene)	HDPE (High Density Polyethylene)	HDPE (High Density Polyethylene)
Liner	60# Densified Kraft	60# Densified Kraft	White 62# Densified Kraft
Liner Thickness (mm)	0.1	0.1	0.1

ISO Statement

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

Recognition/Certification

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.

Information

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