Technical Data Sheet

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	Additional Information
Adhesive Type	Rubber	
Adhesive Type	760 Synthetic Rubber	View
Test Name: Faceside Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.		
Adhesive Type	760 Synthetic Rubber	View
Test Name: Backside Notes: 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 Thickness	0.1 mm	

Color	White	

Liner Color	White, no print	View

Test Name: Primary

Adhesive Thickness	0.076 mm	View

Test Name: Backside

Notes: 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.

Carrier Thickness	0.076 mm	

Total Tape Thickness (mil)	9 mil	View

Test Method: ASTM D3652

Total Tape Thickness (mm)	0.127 mm	View

Test Method: ASTM D3652

Adhesive Thickness	3 mil	View

Test Name: Backside

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

Adhesive Thickness	0.076 mm	View

Test Name: Faceside

Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

Adhesive Thickness	3 mil	View

Test Name: Faceside

Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

Carrier Thickness	3 mil
Liner Print	None
Liner Thickness	4 mil

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	8.7 N/cm	View
Test Method: ASTM D3330 Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil		
90° Peel Adhesion	80 oz/in	View
Test Method: ASTM D3330 Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	9 N/cm	View
Test Method: ASTM D3330 Backing: 2 mil Aluminum Foil Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	82 oz/in	View
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	9.2 N/cm	View
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	84 oz/in	View
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F		

Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	10.9 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	100 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	8.7 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polyester (PET)
Backing: Aluminum Foil

90° Peel Adhesion	80 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polyester (PET)
Backing: Aluminum Foil

90° Peel Adhesion	7.4 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: High Density Polyethylene (HDPE)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	68 oz/in

View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: High Density Polyethylene (HDPE)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

Short Term Temperature Resistance	158 °F	
Short Term Temperature Resistance	70 °C	
Long Term Temperature Resistance	49 °C	
Long Term Temperature Resistance	120 °F	
Static Shear	>10,000 min	View

Test Method: ASTM D3654

Notes: 0.5 in² sample size

Static Shear	1600 min	View

Test Method: ASTM D3654

Notes: 0.5 in² sample size

180° Peel Adhesion	12.5 N/cm	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	115 oz/in	View

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: Aluminum Foil

Notes: 12 in/min (300 mm/min)

Available Sizes

Property	Values	Additional Information
Note	Subject to Minimum Order Requirements	
Standard Roll Length	33 m	
Standard Roll Length	36 yd	
Maximum Length	330 m	View
Width: 1/2 in(12.7mm) and wider		
Maximum Length	360 yd	View
Width: 1/2 in(12.7mm) and wider		
Maximum Length	165 mm	View
Width: 1/4 to 7/16 in		
Maximum Length	180 yd	View
Width: 1/4 to 7/16 in		
Minimum Available Width	6.3 mm	
Minimum Available Width	1/4 in	
Maximum Available Width	660 mm	
Maximum Available Width	26 in	
Available Width	12.7, 19.1, 25.4, 38.1, 50.8 mm	
Available Width	1/2, 3/4, 1, 1.5, 2 in	
Normal Slitting Tolerance	±0.8 mm	

Normal Slitting Tolerance	±1/32 in
Core Size (ID)	76.2 mm
Core Size (ID)	3 in

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)

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.

Bottom Matter

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Handling/Application Information

Application Examples

- 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

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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40070388/
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

ISO Statement

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

Information

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