

Technical Data Sheet

3M™ Screen Printable Sheet Polyester Label Material 7980

Product Description

3M™ Screen Printable Sheet Polyester Label Material 7980 is a durable, high performance material that offers excellent thermal stability, moisture resistance and chemical resistance. This material utilizes 3M™ Adhesive 300, which has excellent quick tack and also bonds well to a variety of surfaces including LSE plastics.

Product Features

- Matte coating is compatible with screen printing and resists degradation from scuffing, chemicals, moisture, and wide temperature fluctuations. Variable information can be added by the end user, as the material is dot matrix printable and hand writable.
- 3M adhesive 300 bonds well to a wide variety of substrates including metals, high surface energy (HSE) plastics and low surface energy (LSE) plastics. It is ideal for applications requiring high initial adhesion especially to LSE plastic surfaces.
- Liner provides easy sheet processing and is designed for layflat. The backside of the liner is not printable.
- UL recognized (File MH11410) and CSA accepted (File 99316). See the UL and CSA listings for details.

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	300 Acrylic	
Liner	90# Polyctd. bleached kraft sheet polyethylene coated on two sides	
Liner Thickness	0.17 mm	
Facestock	White Polyester Matte TC	
Facestock Thickness	0.058 mm	
Adhesive Thickness	0.8 mil	
Adhesive Thickness	0.02 mm	

Facestock Thickness	2.3 mil
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Liner Thickness	6.7 mil
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Convertability	3M™ High Strength Acrylic Adhesive 300 is designed to be compatible with a variety of print methods and end use applications. Due to the quick flowing aggressive nature of this adhesive, care should be taken when converting labels for thermal transfer applications. Please refer to the die cutting/converting section of this data page or the “Guide to Converting and Handling Label Products” technical bulletin for additional information.
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Adhesive Coat Weight	1.21 to 1.49 g/100 in²
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Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion Polypropylene (PP)	4.2 N/cm	View 
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion Stainless Steel	46 oz/in	View 
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion 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 PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	3.1 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 PET

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

90° Peel Adhesion	28 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 PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	34 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: Low Density Polyethylene (LDPE) Backing: 2 mil PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	5.5 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	50 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	1.9 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	17 oz/in	

View 

Test Method: ASTM D3330
Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Polycarbonate (PC)
Notes: 12 in/min (300 mm/min)

90° Peel Adhesion	4.6 N/cm	View 
Test Method: ASTM D3330		
Dwell/Cure Time: 72.0		
Dwell Time Units: hr		
Temp C: 49C		
Temp F: 120F		
Environmental Condition: 50%RH		
Substrate: Polypropylene (PP)		
Notes: 12 in/min (300 mm/min)		

90° Peel Adhesion	42 oz/in	View 
Test Method: ASTM D3330		
Dwell/Cure Time: 72.0		
Dwell Time Units: hr		
Temp C: 49C		
Temp F: 120F		
Environmental Condition: 50%RH		
Substrate: Polypropylene (PP)		
Notes: 12 in/min (300 mm/min)		

90° Peel Adhesion	5.5 N/cm	View 
Test Method: ASTM D3330		
Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Glass		
Notes: 12 in/min (300 mm/min)		

90° Peel Adhesion

50 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 49C

Temp F: 120F

Environmental Condition: 50%RH

Substrate: Glass

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

90° Peel Adhesion	3.2 N/cm	View 
Test Method: ASTM D3330		
Dwell/Cure Time: 72.0		
Dwell Time Units: hr		
Temp C: 49C		
Temp F: 120F		

Environmental Condition: 50%RH
Substrate: High Density Polyethylene (HDPE)

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

90° Peel Adhesion	29 oz/in	View ^
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	1.1 N/cm	View ^
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	10 oz/in	View ^
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion Stainless Steel	5 N/cm	View ^
Notes: 12 in/min (300 mm/min) ASTM D3330 72 hour dwell on Stainless Steel at 23°C (72°F) and 50% RH Backing: 2 mil Polyester		
90° Peel Adhesion Glass	5.2 N/cm	View ^
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Glass Backing: 2 mil PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion Glass	48 oz/in	View ^
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C		

Temp F: 72F
Environmental Condition: 50%RH
Substrate: Glass
Backing: 2 mil PET

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

90° Peel Adhesion Polycarbonate (PC)	5 N/cm	View ^
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion 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 PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion Polycarbonate (PC)	46 oz/in	View ^
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion 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 PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion Polypropylene (PP)	38 oz/in	View ^
Test Method: ASTM D3330 Test Name: 90° Peel Adhesion Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil PET Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	5.8 N/cm	View ^
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	53 oz/in	View ^
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F		

Environmental Condition: 90%RH
Substrate: Stainless Steel

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

90° Peel Adhesion	3.9 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	36 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.8 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	44 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.8 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	44 oz/in	View 

Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Glass

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

90° Peel Adhesion	3.5 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	32 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	3.3 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	30 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.6 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel		

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

90° Peel Adhesion	42 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.8 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	44 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.2 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	38 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	4.6 oz/in	View 
Test Method: ASTM D3330		

Dwell/Cure Time: 10.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Glass

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

90° Peel Adhesion	42 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	3.1 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	28 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	2.7 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	25 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		

90° Peel Adhesion	3.7 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: Low Density Polyethylene (LDPE) Backing: 2 mil PET Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6.1 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	56 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6.7 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	59 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	5.8 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C		

Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)

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

180° Peel Adhesion	53 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6.6 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	60 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 10.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6.7 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: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	61 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) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6.1 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: Polypropylene (PP)

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

180° Peel Adhesion	56 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: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.8 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: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	71 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: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	4.4 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) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	40 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)		

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

180° Peel Adhesion	4.6 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: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	42 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: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.7 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	70 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	3.3 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	30 oz/in	View 
Test Method: ASTM D3330		

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 49C
Temp F: 120F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)

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

180° Peel Adhesion	5.9 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	54 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	4.4 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	40 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	1 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		

180° Peel Adhesion	9 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.3 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 Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	67 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 Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.7 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	70 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 49C Temp F: 120F Environmental Condition: 50%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.4 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F		

Environmental Condition: 90%RH
Substrate: Stainless Steel

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

180° Peel Adhesion	68 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	6 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	55 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polycarbonate (PC) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.2 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	66 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Polypropylene (PP) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	7.3 N/cm	View 

Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 90%RH
Substrate: Glass

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

180° Peel Adhesion	67 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Glass Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	4.9 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	45 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: High Density Polyethylene (HDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	3.9 N/cm	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Low Density Polyethylene (LDPE) Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	36 oz/in	View 
Test Method: ASTM D3330 Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 32C Temp F: 90F Environmental Condition: 90%RH Substrate: Low Density Polyethylene (LDPE)		

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

180° Peel Adhesion	3.8 N/cm	View	^
Test Method: ASTM D3330			
Dwell/Cure Time: 10.0			
Dwell Time Units: min			
Temp C: 23C			
Temp F: 72F			
Environmental Condition: 50%RH			
Substrate: High Density Polyethylene (HDPE)			
Notes: 12 in/min (300 mm/min)			

180° Peel Adhesion	35 oz/in	View	^
Test Method: ASTM D3330			
Dwell/Cure Time: 10.0			
Dwell Time Units: min			
Temp C: 23C			
Temp F: 72F			
Environmental Condition: 50%RH			
Substrate: High Density Polyethylene (HDPE)			
Notes: 12 in/min (300 mm/min)			

180° Peel Adhesion	3.5 N/cm	View	^
Test Method: ASTM D3330			
Dwell/Cure Time: 10.0			
Dwell Time Units: min			
Temp C: 23C			
Temp F: 72F			
Environmental Condition: 50%RH			
Substrate: Low Density Polyethylene (LDPE)			
Notes: 12 in/min (300 mm/min)			

180° Peel Adhesion	32 oz/in	View	^
Test Method: ASTM D3330			
Dwell/Cure Time: 10.0			
Dwell Time Units: min			
Temp C: 23C			
Temp F: 72F			
Environmental Condition: 50%RH			
Substrate: Low Density Polyethylene (LDPE)			
Notes: 12 in/min (300 mm/min)			

Long Term Temp C	149 °C	View	^
Test Condition: Long Term (day, weeks)			
Minimum Long Term Temperature Resistance	-40 °C	View	^

Test Condition: Long Term (day, weeks)			
Long Term Temp F	302 °F	View	^
Test Condition: Long Term (day, weeks)			
Minimum Long Term Temperature Resistance	-40 °F	View	^

Test Condition: Long Term (day, weeks)

Minimum Application Temperature	10 °C	
Minimum Application Temperature	50 °F	
Note	Calipers are nominal values	
Liner Release	10 to 60 g/2 in	View 
Test Method: TLMI		
Notes: 180° removal, 300 in/min		

Available Sizes

Finished labels should be stored in plastic bags.

Typical Environmental Performance

Property	Values	Additional Information
Chemical and Environmental Exposure	The properties defined are based on four hour immersions at room temperature (72°F/22° C) unless otherwise noted. Samples were applied to stainless steel panels 24 hours prior to immersion and were evaluated one hour after removal from the solution for peel adhesion. Adhesion measured at 180° peel angle (ASTM D 3330) at 12 inches/minute. -	
Humidity Resistance	24 hours at 100°F (38°C) and 100% relative humidity: no significant change in appearance or adhesion	
Temperature Resistance	300°F (149°C) for 24 hours: no significant visual change -40°F (-40°C) for 10 days: no significant visual change	

Printing

Material has a topcoating which is receptive to many inks including UV and conventional ink systems. The converter should verify that their ink systems are compatible with the topcoating on the polyester film by testing beforehand.

The topcoating is also receptive to other forms of printing including hot stamping and dot matrix printing. The converter should verify that the method of printing is compatible with the topcoating by testing beforehand.

The following dot matrix ribbons are recommended for use with this material:

- CGL-79 from Mid City Columbia, 800-462 or 800-996-4656

- Ranger 288 from Herbert Dehinton & Co., 847-998-8150
- 3M does not recommend the Ranger 288 ribbon for bar code printing.

Converting

Die cut with steel rule or flatbed dies. The 90# lay-flat liner also allows kiss cutting and back splitting. The converter can cut through the polyester facestock without cutting through the liner. Sheet label materials are not recommended for rotary die cutting and stripping operations.

Storage and Shelf Life

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.
If stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Industry Specifications

UL Recognized (File MH11410)
CSA Accepted (File 99316)

Bottom Matter

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Converter Markets
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Trademarks

3M is a trademark of 3M Company.
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Handling/Application Information

Application Examples

- Barcode labels and rating plates.
- Property identification and asset labeling.
- Warning, instruction, and service labels for durable goods.
- Nameplates for durable goods.

Application Techniques

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.*

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 50°F (10°C), can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.

*When using solvents, read and follow the manufacturer’s precautions and directions for use.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b5005329209/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=7980

Family Group

Link Tags:

- 7980

• 7983

Products	Adhesive Type	Liner	Liner Thickness	Facestock Thickness	Adhesive Thickness	Long Term Temp C	Minimum Long Term Temperature Resistance	Long Term Temp F	Facestock
7980	300 Acrylic	90# Polyctd. bleached kraft sheet polyethylene coated on two sides	0.17 mm	0.058 mm	0.02 mm	149 °C	-40 °C	302 °F	N/A
7983	N/A	90# Polyctd. bleached kraft sheet polyethylene coated on two sides	0.17 mm	N/A	0.02 mm	149 °C	N/A	302 °F	Matte Silver Polyester TC

ISO Statement

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

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