

Technical Data Sheet

3M™ Computer-Imprintable Polyester Label Material 7880

Product Features

- Topcoated polyester is compatible with dot matrix printing and is hand writeable. The matte coating resists degradation from scuffing, chemicals, moisture, and wide temperature fluctuations. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- #300 adhesive 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.
- 55# densified kraft liner assures consistent die cutting.
- 3M™ Label Material 7880 is UL recognized (Files MH11410 and MH16411) 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	55# Densified kraft	
Liner Thickness	0.081 mm	
Facestock	Matte radiant white polyester	
Facestock Thickness	0.058 mm	
Adhesive Thickness	0.8 mil	
Adhesive Thickness	0.02 mm	
Facestock Thickness	2.3 mil	

Liner Thickness 3.2 mil

Adhesive Coat Weight 1.21 to 1.49 g/100 in²

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion Polypropylene (PP)	4.2 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>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</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion Stainless Steel	46 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>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</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	3.1 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>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</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	28 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>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</p> <p>Notes: 12 in/min (300 mm/min)</p>		
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 
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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 
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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 
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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 
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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 
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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 
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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 
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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 
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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 
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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 
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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 
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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 
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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)		
Note	Calipers are nominal values	
180° Liner Release	0.054 N/cm	View 
Test Condition: 90 in/min		
180° Liner Release	14 g/in	View 
Test Condition: 90 in/min		
180° Liner Release	0.069 N/cm	View 
Test Condition: 300 in/min		
180° Liner Release	18 g/in	View 
Test Condition: 300 in/min		





Special Considerations

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

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

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.

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 changes in appearance or adhesion	
Temperature Resistance	300°F (149°C) for 24 hours: no significant visual change 0.75% MD shrinkage 0.9% CD shrinkage -40°F (-40°C) for 10 days: no significant visual change	
Accelerated Aging	0.062 N/cm	View 
<p>Test Method: ASTM D3611</p> <p>Dwell/Cure Time: 96.0 Dwell Time Units: hr Temp C: 65C Temp F: 150F Environmental Condition: 80%RH</p> <p>Notes: 180° Removal of Liner from Facestock at 90 in/min</p>		
Accelerated Aging	16 g/in	View 
<p>Test Method: ASTM D3611</p> <p>Dwell/Cure Time: 96.0 Dwell Time Units: hr Temp C: 65C Temp F: 150F Environmental Condition: 80%RH</p> <p>Notes: 180° Removal of Liner from Facestock at 90 in/min</p>		
Accelerated Aging	5.9 N/cm	View 
<p>Test Method: ASTM D3611</p> <p>Dwell/Cure Time: 96.0 Dwell Time Units: hr Temp C: 65C Temp F: 150F Environmental Condition: 80%RH Substrate: Stainless Steel</p> <p>Notes: 12 in/min (300 mm/min)</p>		
Accelerated Aging	54 oz/in	View 

Test Method: ASTM D3611

Dwell/Cure Time: 96.0
Dwell Time Units: hr
Temp C: 65C
Temp F: 150F
Environmental Condition: 80%RH
Substrate: Stainless Steel

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

Processing

Printing:

Facestock is topcoated for improved ink receptivity and is designed for dot matrix printing. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. Refer to the Graphic Ink Selection Guide or call 3M Customer Service at 1-800-223-7427 for additional information.

Die Cutting:

Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.

Packaging:

Finished labels should be stored in plastic bags.

Agency Listing Information

Dot Matrix Printing:

*UL recognized and CSA accepted component for indoor and outdoor use. The following ribbons are UL recognized when used with this material.

- CGL-79™ from Mid-City Columbia, 800-462-2336 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.

Laser Toner Printing:

UL recognized with the following printers and toners.

*Toner and Printer/UL Recognized Components

Hitachi HMT 446 toner kit for producing finished printed labels with UL listed Synergystex CF-1000 laser printer

Storage and Shelf Life

24 months from date of manufacture of product when properly stored at 72°F (22°C) and 50% relative humidity.

Industry Specifications

UL Recognized (Files MH11410 and MH16411)

CSA Accepted (File 99316)

Bottom Matter

3M

Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06

St. Paul, MN 55144-1000

800-362-3550

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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b5005329192/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=7880

Family Group

Link Tags:

• 7880

Products	Adhesive Type	Liner Thickness	Facestock Thickness	Adhesive Thickness
7880	#300 Acrylic	0.081 mm	0.058 mm	0.02 mm

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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