

Technical Data Sheet

3M™ Thermal Transfer Polyester Label Material 7876

Product Description

3M™ Thermal Transfer Polyester Label Material 7876 is a clear polyester label material that offers premium durability and moisture resistance. This label product utilizes 3M™ High Performance Acrylic Adhesive 350, it offers excellent chemical resistance and holding strength even at high temperatures.

Product Features

- Facestock is topcoated for thermal transfer printing. Resin ribbons are recommended for optimum durability. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- Adhesive can permanently bond to high surface energy (HSE) and low surface energy (LSE) plastics, textured and contoured surfaces, powder coatings, and slightly oily metals.
- Thick adhesive caliper provides for stronger bond on textured surfaces.
- 55# densified kraft liner assures consistent die cutting.
- UL recognized (File MH16411) and CSA accepted (File 99316). See the UL and CSA listings for details.
- UL listing includes approval for use on powder coated surfaces.

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	350 Acrylic	
Liner	55# Densified Kraft	
Liner Thickness	0.081 mm	
Facestock	Clear Polyester Gloss TC	
Facestock Thickness	0.051 mm	
Adhesive Thickness	1.8 mil	
Adhesive Thickness	0.046 mm	

Facestock Thickness 2 mil






Liner Thickness 3.2 mil

Convertability

In order to capture the superior performance properties of 3M™ High Holding Acrylic Adhesive 350, thicker calipers are utilized for LSE or textured substrates. Its higher caliper, while desirable for the end use applications, may require extra care during processing. 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.

Adhesive Coat Weight 2.70 to 3.24 g/100 in²

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion Polypropylene (PP)	3.2 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)		
Long Term Temp C	125 °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	257 °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

180° Peel Adhesion 8.8 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: Stainless Steel

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

180° Peel Adhesion 79 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 8.9 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 81 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 7.1 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: Polypropylene (PP)

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

180° Peel Adhesion

65 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

9.1 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: Glass

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

180° Peel Adhesion

83 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

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: **Smooth Powder Coating

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

180° Peel Adhesion

73 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: **Smooth Powder Coating

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

180° 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: **Finely Textured Powder Coating

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

180° 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: **Finely Textured Powder Coating Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	5.2 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: **Smooth Powder Coating Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	48 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: **Smooth Powder Coating Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	3 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: **Finely Textured Powder Coating Notes: 12 in/min (300 mm/min)		
90° Peel Adhesion	27 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: **Finely Textured Powder Coating Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	9.4 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: Polycarbonate (PC)

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

180° Peel Adhesion

88 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

8.1 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

74 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

9.7 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: Glass

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

180° Peel Adhesion


89 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	5.6 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: High Density Polyethylene (HDPE)


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

180° Peel Adhesion	51 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	5.4 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: Low Density Polyethylene (LDPE)


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

180° Peel Adhesion	49 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	8.4 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: **Smooth Powder Coating

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

180° Peel Adhesion	77 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: **Smooth Powder Coating

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: **Finely Textured Powder Coating

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

180° Peel Adhesion

44 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: **Finely Textured Powder Coating

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

90° Peel Adhesion Stainless Steel

78 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

3.5 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: High Density Polyethylene (HDPE)
 Backing: 2 mil PET

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

90° Peel Adhesion

32 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

35 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: 23C


Temp F: 72F

Environmental Condition: 50%RH

Substrate: **Smooth Powder Coating

90° Peel Adhesion

50 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: **Smooth Powder Coating

90° Peel Adhesion

2.8 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: **Finely Textured Powder Coating

90° Peel Adhesion

26 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: **Finely Textured Powder Coating

180° Peel Adhesion

10.6 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: Stainless Steel

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

180° Peel Adhesion

97 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

6.9 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)

180° Peel Adhesion

63 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

8.6 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)

180° Peel Adhesion

79 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

5.2 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)

180° Peel Adhesion

48 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

1.5 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: Low Density Polyethylene (LDPE)

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

180° Peel Adhesion

14 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

9.1 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: **Smooth Powder Coating

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

180° Peel Adhesion

83 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: **Smooth Powder Coating

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

180° Peel Adhesion

5.4 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: **Finely Textured Powder Coating

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

180° Peel Adhesion

49 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: **Finely Textured Powder Coating

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

90° Peel Adhesion

10.3 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: Stainless Steel

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

90° Peel Adhesion

94 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

3.6 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: Polycarbonate (PC)

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

90° Peel Adhesion

33 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

3.7 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: Polypropylene (PP)

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: 49C
Temp F: 120F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)

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

90° Peel Adhesion

9.1 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: Glass

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

90° Peel Adhesion

83 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

3.3 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: High Density Polyethylene (HDPE)

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

90° 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: High Density Polyethylene (HDPE)

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

90° Peel Adhesion

1.4 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: Low Density Polyethylene (LDPE)

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

90° Peel Adhesion

13 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

6.6 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: **Smooth Powder Coating

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

90° Peel Adhesion

60 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: **Smooth Powder Coating

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

90° Peel Adhesion

3.6 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: **Finely Textured Powder Coating


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

90° Peel Adhesion	33 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: **Finely Textured Powder Coating


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

180° Peel Adhesion	9.8 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: Stainless Steel

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

180° Peel Adhesion	90 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: Stainless Steel

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

90° Peel Adhesion Stainless Steel	8.5 N/cm	View 
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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	8.2 N/cm	View 
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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	75 oz/in	View 
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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)	7.3 N/cm	View 
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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)	67 oz/in	View 
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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)	29 oz/in	View 
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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)

180° Peel Adhesion	10.5 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)


180° Peel Adhesion	96 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)

180° Peel Adhesion	10.2 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: Stainless Steel		
Notes: 12 in/min (300 mm/min)		

180° Peel Adhesion	93 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	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: Polycarbonate (PC)		
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: Polycarbonate (PC)		
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: Polypropylene (PP)		
Notes: 12 in/min (300 mm/min)		

180° Peel Adhesion	68 oz/in	View 
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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

8.8 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)

180° Peel Adhesion

80 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

4.6 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: High Density Polyethylene (HDPE)

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

180° Peel Adhesion

42 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


4.2 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: Low Density Polyethylene (LDPE)


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


180° Peel Adhesion	38 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	8.4 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: **Smooth Powder Coating		
Notes: 12 in/min (300 mm/min)		

180° Peel Adhesion	77 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: **Smooth Powder Coating		
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: **Finely Textured Powder Coating		
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: **Finely Textured Powder Coating		
Notes: 12 in/min (300 mm/min)		


90° Peel Adhesion	8.8 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

80 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

6.2 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: Polycarbonate (PC)

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

90° Peel Adhesion

57 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

4.6 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: Polypropylene (PP)

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

90° Peel Adhesion

42 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

7.7 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

70 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

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: High Density Polyethylene (HDPE)

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

90° Peel Adhesion

37 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

4.2 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: Low Density Polyethylene (LDPE)

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

90° Peel Adhesion

38 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	6.3 N/cm	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 50%RH
Substrate: **Smooth Powder Coating


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

90° Peel Adhesion	58 oz/in	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 50%RH
Substrate: **Smooth Powder Coating

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

90° Peel Adhesion	3.1 N/cm	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 50%RH
Substrate: **Finely Textured Powder Coating


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

90° Peel Adhesion	28 oz/in	View 
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Test Method: ASTM D3330

Dwell/Cure Time: 24.0
Dwell Time Units: hr
Temp C: 32C
Temp F: 90F
Environmental Condition: 50%RH
Substrate: **Finely Textured Powder Coating

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

Liner Release	5 to 70 g/2 in	View 
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Test Method: TLMI

Notes: 180° removal, 300 in/min


180° Peel Adhesion	5 N/cm	View 
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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	46 oz/in	View 
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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	5 N/cm	View 
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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	46 oz/in	View 
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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	6.1 N/cm	View 
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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	56 oz/in	View 
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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	6.7 N/cm	View 
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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

61 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

3.3 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

30 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

7.1 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


65 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	3.2 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: Low Density Polyethylene (LDPE)		
Notes: 12 in/min (300 mm/min)		





90° Peel Adhesion	29 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	3.8 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: Low Density Polyethylene (LDPE) Backing: 2 mil PET		
Notes: 12 in/min (300 mm/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: Some yellowing of facestock -40°F (-40°C) for 10 days: No significant visual change	
Accelerated Aging	0.05 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	13 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	8.3 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	76 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)

Printing

Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. Refer to UL Listing for specific ribbons.

Converting

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.

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 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

Trademarks

3M is a trademark of 3M Company.
Alconox is a registered trademark of Alconox, Inc. Formula
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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 and 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/b5005329085/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=7876

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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