Technical Data Sheet

3M™ Sheet Label Material 7908FL

Product Description

3M™ Sheet Label Materials are durable, high performance materials that offer excellent thermal stability, moisture resistance and chemical resistance. These materials utilize 3M™ Adhesive 350, which is designed to permanently bond to high and low surface energy plastics, textured and contoured surfaces, powder coatings, and slightly oily metals.

Product Features

● Facestock for 3M™ Sheet Label Material 7908FL is topcoated for improved ink anchorage. Variable information can be added by the end-user as the material is thermal transfer printable.
● Liner for 3M™ Sheet Label Material 7908FL provides easy sheet processing and is designed for layflat applications that require domed decal molding. The backside of the liner is not printable. Polyester liner contributes to improved diecutting by allowing for deeper diecuts than paper without the added concern of exposing paper fibers. The film liner resists breakage during high speed dispensing. The polyester liner is recommended for clean room applications.
● 3M™ Sheet Label Material 7908FL is UL recognized (File 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	350 Acrylic	
Liner	Clear Polyester	
Liner Thickness	0.102 mm	
Facestock	White Polyester Gloss TC	
Facestock Thickness	0.051 mm	
Adhesive Thickness	1.8 mil	
Adhesive Thickness	0.046 mm	

Facestock Thickness	2 mil
Liner Thickness	4 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) 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)	3.4 N/cm	View
90° Peel Adhesion Stainless Steel 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)	75 oz/in	View
90° Peel Adhesion Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH	3.5 N/cm	View

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	37 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	10.5 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	96 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	3.7 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: Polycarbonate (PC)

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: Polycarbonate (PC)

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

90° Peel Adhesion	1.6 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	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: Polypropylene (PP)

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

90° Peel Adhesion	9.4 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: Glass

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

90° Peel Adhesion	86 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	3.5 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: 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: 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	1.5 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)

90° 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)

90° Peel Adhesion Stainless Steel	8.2 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	8.4 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	77 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)	7.6 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)	69 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)	31 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	8.9 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: Stainless Steel

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

90° Peel Adhesion	81 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	6.4 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)

90° Peel Adhesion	59 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	5.1 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	47 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	7.9 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: Glass

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

90° Peel Adhesion	72 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	4.2 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: High Density Polyethylene (HDPE)

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: High Density Polyethylene (HDPE)

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

90° Peel Adhesion	4.4 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: Low Density Polyethylene (LDPE)

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

90° Peel Adhesion	40 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	6.9 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: Stainless Steel

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

90° Peel Adhesion	63 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	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: Polycarbonate (PC)

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: Polycarbonate (PC)

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: Polypropylene (PP)

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: Polypropylene (PP)

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

90° Peel Adhesion	7.6 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	69 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 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	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: 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	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: Low Density Polyethylene (LDPE)

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

90° Peel Adhesion	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: Low Density Polyethylene (LDPE)
Backing: 2 mil PET

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

180° Peel Adhesion	9.6 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)

180° Peel Adhesion	88 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	9.8 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)

180° Peel Adhesion	90 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	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	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: Polypropylene (PP)

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

180° Peel Adhesion	1.02 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	93 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	9.3 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: **Smooth Powder Coating

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

180° Peel Adhesion	85 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	5.4 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	49 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	10.3 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: Polycarbonate (PC)

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

180° Peel Adhesion	94 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	9.1 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	83 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	10.8 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	99 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	6.3 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: High Density Polyethylene (HDPE)

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

180° Peel Adhesion	58 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	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: Low Density Polyethylene (LDPE)

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: Low Density Polyethylene (LDPE)

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: **Smooth Powder Coating

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: **Smooth Powder Coating

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

180° Peel Adhesion	5.7 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: **Finely Textured Powder Coating

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

180° Peel Adhesion	52 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)

180° Peel Adhesion	11.8 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	108 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	7.2 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: Polycarbonate (PC)

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

180° Peel Adhesion	66 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	8.9 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	81 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	6.1 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: High Density Polyethylene (HDPE)

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: 49C
Temp F: 120F
Environmental Condition: 50%RH
Substrate: High Density Polyethylene (HDPE)

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

180° Peel Adhesion	1.6 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: Low Density Polyethylene (LDPE)

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

180° Peel Adhesion	15 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	10.2 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: **Smooth Powder Coating

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

180° Peel Adhesion	93 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	6.1 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: **Finely Textured Powder Coating

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: 49C
Temp F: 120F
Environmental Condition: 50%RH
Substrate: **Finely Textured Powder Coating

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

180° Peel Adhesion	10.5 N/cm	View

Test Method: ASTM D3330

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

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

180° Peel Adhesion	96 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	11.6 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: Glass

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

180° Peel Adhesion	106 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	10.8 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)

180° Peel Adhesion	99 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	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: Polycarbonate (PC)

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: Polycarbonate (PC)

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

180° Peel Adhesion	8.5 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: Polypropylene (PP)

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

180° Peel Adhesion	78 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	9.7 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)

180° Peel Adhesion	89 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	5.5 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)

180° Peel Adhesion	50 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	4.7 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: Low Density Polyethylene (LDPE)

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

180° Peel Adhesion	43 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	9.6 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: **Smooth Powder Coating

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

180° Peel Adhesion	88 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	5.5 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: **Finely Textured Powder Coating

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

180° Peel Adhesion	50 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)

180° Peel Adhesion	5.9 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: High Density Polyethylene (HDPE)

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

180° Peel Adhesion	54 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	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: Low Density Polyethylene (LDPE)

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: 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	5 to 70 g/2 in	View

Test Method: TLMI

Notes: 180° removal, 300 in/min

Available Sizes

Finished labels should be stored in plastic bags.

Note

**Calculated using averages of different powder coated surfaces.

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.

Converting

Die Cutting:
Die cut with steel rule, flatbed or rotary dies.
Doming:
The 4.0 mil polyester liner does not deform and provides a smooth surface during the doming process.

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 amd 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 409 is a registered trademark of Clorox.

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.
- 3M™ Sheet Label Material 7908FL is suitable for domed decals.

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/b5005329177/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=7908FL

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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