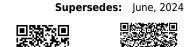




Technical Data Sheet

3M™ Laser Toner Printable Label Material 7841



Last Revision Date: September, 2024



English-US

Product Details

Regulatory Info/SDS

Product Description

 $3M^{\text{TM}}$ Label Material 7841 with $3M^{\text{TM}}$ Adhesive 310 is designed for continuous laser printing offering print contrast when bar coding and toner anchorage. The Adhesive 310 resists oozing and is designed to function in a variety of printers using a broad range of label configurations. Label Material 7841 is also compatible with the Indigo $^{\text{TM}}$ Omnius $^{\text{TM}}$ One-Shot Color $^{\text{TM}}$ Press.

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

Attribute Name	Value
Adhesive Type	310 Acrylic
Facestock	matte white Teslin™
	Conforms to extremely small diameters such as wires when
Conformability	wrapped onto itself. Some conformability to compound
	curved surfaces.
	Rotary or flatbed. Use sharp rotary dies tooled for specific
Die-Cutting	label stock. Do not cut into liner too deeply - avoid stacking
	fan-folded labels higher than 3" - 4".
Adhesive Coat Weight	1.00 — 1.25 g/100 in ²

Attribute Name	Value
Adhesive Thickness	0.02 mm (0.8 mil)
Facestock Thickness	0.178 mm (7 mil)
Liner	55# densified kraft
Liner Thickness	0.081 mm (3.2 mil)

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F) Test Method: ASTM D3330

Dwell Time	Substrate	Value
10 min	Polycarbonate (PC)	3.9 N/cm (36 oz/in) ¹
10 min	Polypropylene (PP)	2.5 N/cm (23 oz/in) ¹
10 min	Stainless Steel	3.5 N/cm (32 oz/in) ¹
72 h	Polycarbonate (PC)	4.8 N/cm (43 oz/in) ¹
72 h	Polypropylene (PP)	3.3 N/cm (30 oz/in) ¹
72 h	Stainless Steel	4.6 N/cm (42 oz/in) ¹

^{1 304} mm/min (12 in/min)

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	121 °C (250 °F) ¹
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Attribute Name	Value
180° Liner Release	8 g/in ¹

¹ 90 in/min

Typical Environmental Characteristics

Chemical and Environmental Exposure

Liquid Dwell Time/Exposure Condition Results Engine Oil (10W30) @ 250°F (121°C) 4 hours Discolors brown – 3mm edge penetration Acid (pH 4) @ Room Temperature 4 hours No change Base (pH 10) @ Room Temperature 4 hours No change Isopropyl Alcohol @ Room Temperature 4 hours Label removed during exposure Water @ Room Temperature 24 hours No visual change – 1mm edge penetration

Humidity Resistance

1 day at 90°F (32°C) and 90% relative humidity: no visual change - 1mm edge penetration

Temperature Resistance

 $300^{\circ}F$ (149°C) for 1 day: no change $-40^{\circ}F$ (-40°C) for 1 day no change

NOTE:Extended exposure to high temperature will result in discoloration.

Printing

Flexographic and continuous laser printing using QMS CF 2215™ or Diagraph Predator™.

Handling/Application Information

Application Examples

- Alphanumeric and bar coding
- Environments requiring higher performance than paper label stocks
 Inventory, bin and in-process item labeling
- Property identification
- · Durable goods labeling
- Wire Marking

Application Techniques

Extreme heat and pressure used in the toner fusing section of some laser printers may cause curl in the printed label material.

Dispensing Equipment

Suitable for manual applications.

Agency Listing Information

UL Recognized, File MH16411 (www.ul.com under certifications)CSA: Accepted, File 099316 (http://directories.csa-international.org)

Industry Specifications

UL Recognized (File MH16411)

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/converter.

3M™ Industrial Adhesives and Tapes Division 3M Center, St. Paul, MN 55144-1000 3M.com/iatd

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