



Technical Data Sheet

3M™ Laser Toner Printable Label Material
7841



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Label Material 7841 with 3M™ 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™ Omnium™ One-Shot Color™ 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™
Conformability	Conforms to extremely small diameters such as wires when wrapped onto itself. Some conformability to compound curved surfaces.
Die-Cutting	Rotary or flatbed. Use sharp rotary dies tooled for specific 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 in²

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

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°F (149°C) for 1 day: no change
 -40°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

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

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

Teslin is a trademark of PPG. Indigo, Omnius and One-Shot Color are trademarks of Indigo, N. V.
QMS CF 2215 is a trademark of QMS Diagraph
Predator is a trademark of Diagraph Corporation
©3M 2024 (9/24)