



# Technical Data Sheet

## 3M™ Versatile Print Label Material 7876V



[Product Details](#)

### Product Description

3M™ Versatile Print Label Material 7876V is a gloss polyester label material that offers durability and moisture resistance. The topcoat is formulated to print with multiple technologies, including UV inkjet, water flexo, UV flexo, thermal transfer, and screen printing. This label product utilizes 3M™ High Performance Acrylic Adhesive 350, it offers chemical resistance and holding strength even at high temperatures.

### Product Features

- 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.
- Facestock is topcoated for high quality and durable printing with multiple print technologies including UV inkjet, water and UV flexo, thermal transfer, and screen.
- UL recognized (File MH16411) See the UL listing 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

Attribute Name	Value
Adhesive Type	350 Acrylic
Facestock	Clear Polyester Versatile TC
Adhesive Coat Weight	2.70 — 3.24 g/100 in <sup>2</sup>

Attribute Name	Value
Adhesive Thickness	0.046 mm (1.8 mil)
Facestock Thickness	0.051 mm (2 mil)
Liner	55# Densified Kraft
Liner Thickness	0.081 mm (3.2 mil)

Attribute Name	Value
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.

## Typical Performance Characteristics

### 180° Peel Adhesion

Temperature: 23 °C (73 °F)

Test Method: ASTM D3330

Dwell Time	Substrate	Value
20 min	Polycarbonate (PC)	8.5 N/cm (77 oz/in) <sup>1</sup>
20 min	Polypropylene (PP)	7.4 N/cm (68 oz/in) <sup>1</sup>
20 min	Stainless Steel	8.4 N/cm (77 oz/in) <sup>1</sup>
72 h	Polycarbonate (PC)	9.2 N/cm (83 oz/in) <sup>1</sup>
72 h	Polypropylene (PP)	8 N/cm (73 oz/in) <sup>1</sup>
72 h	Stainless Steel	9.6 N/cm (87 oz/in) <sup>1</sup>

<sup>1</sup> 304 mm/min (12 in/min)

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	125 °C (257 °F) <sup>1</sup>
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) <sup>1</sup>

<sup>1</sup> Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

## Typical Environmental Performance

### 180° Peel Adhesion

Temperature: 37 °C (100 °F)

Dwell Time: 72 h

Test Method: ASTM D3330

Environmental Condition: 100%RH

Substrate	Value
Polycarbonate (PC)	6.6 N/cm (60 oz/in) <sup>1</sup>
Polypropylene (PP)	7.7 N/cm (70 oz/in) <sup>1</sup>
Stainless Steel	7.0 N/cm (63 oz/in) <sup>1</sup>

<sup>1</sup> 304 mm/min (12 in/min)

Substrate: Stainless Steel

Temperature: 65 °C (150 °F)

Dwell Time: 96 h

Environmental Condition: 80%RH

Attribute Name	Test Method	Value
Accelerated Aging	ASTM D3611	11 N/cm (100 oz/in) <sup>1</sup>

<sup>1</sup> 304 mm/min (12 in/min)

## **Typical Environmental Characteristics**

### **Humidity Resistance**

24 hours at 100°F (38°C) and 100% relative humidity: no significant change in appearance or adhesion

### **Temperature Resistance**

When applied to stainless steel. Other substrates should be tested per application. 300°F (149°C) for 24 hours: Some yellowing of facestock  
-40°F (-40°C) for 10 days: no significant visual change

## **Printing**

Facestock is topcoated for improved ink receptivity and is designed for UV Inkjet, water flexo, UV flexo, screen, and thermal transfer printing.

UL approved inks (evaluated in black, blue, red, and yellow)

**Actega Actexact: -40°-150°C. Red and Yellow Indoor Only.**

**Actega Optafilm: -40°-150°C. Red and Yellow Indoor Only.**

**Flint Hydrofilm Ace: -40°-150°C. Red Indoor Only.**

**Flint Flexocure Force: -40°-150°C. Red and Yellow Indoor Only.**

**Domino N610i: -40°-150°C. All Colors Indoor and Outdoor.**

**Durst Tau RSC: -40°-150°C. All Colors Indoor and Outdoor.**

**EFI Jetrion 4830: -40°-150°C. All Colors Indoor and Outdoor.**

**INX Prodigy: -40°-150°C. All Colors Indoor and Outdoor.**

**Mark Andy Digital Series: -40°-150°C. All Colors Indoor and Outdoor.**

**Stork DSI Digital UV: -40°-150°C. Yellow Indoor Only.**

## **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.

## **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.

## **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.

## Available Sizes

Attribute Name	Value
Packaging	Finished labels should be stored in plastic bags.

## 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](http://www.3M.com).

## 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.

## 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. This is a preliminary data sheet and subject to change.

## 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.

## ISO Statement

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

3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
[3M.com/iatd](http://3M.com/iatd)

3M is a trademark of 3M Company.  
©3M 2024 (9/24)