



Technical Data Sheet

3M™ Removable Vinyl Label Material 7600



[Product Details](#)

Product Description

3M™ Removable Vinyl Label Material 7600 is a conformable white vinyl stock that utilizes 3M™ Acrylic Adhesive 500 which offers clean removability on most surfaces for up to one year, as well as plasticizer resistance.

Product Features

- Conformable to contoured surfaces
- Resists wrinkling and delamination
- One-piece removal up to one year after application
- Topcoated for improved ink anchorage
- The 3M™ Acrylic Adhesive 500 provides adhesion to a variety of surfaces including stainless steel, polycarbonate and polypropylene
- UL recognized (File MH11410)

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	500 Acrylic
Adhesive Coat Weight	1.40 — 1.83 g/in ²
Facestock	Soft White Liner Vinyl TC

Attribute Name	Value
Adhesive Thickness	0.025 mm (1 mil)
Facestock Thickness	0.086 mm (3.5 mil)
Liner	43# Densified Kraft
Liner Thickness	0.062 mm (2.5 mil)

Attribute Name	Value
Convertability	3M™ High Stability Acrylic Adhesive 500 for outdoor applications which require clean removability. When converting labels for thermal transfer applications, care should be taken with regard to proper roll tensions, handling and storage conditions. 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

Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
Liner Release	TLMI	5 — 50 g/2 in ¹

¹ 180° removal, 300 in/min

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	79 °C (175 °F) ¹
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

¹ Long Term (day, weeks)

180° Peel Adhesion

Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Test Method: ASTM D3330

Substrate	Value
Polycarbonate (PC)	7.4 N/cm (68 oz/in) ¹
Polypropylene (PP)	2.8 N/cm (26 oz/in) ¹
Stainless Steel	5.6 N/cm (52 oz/in) ¹

¹ 304 mm/min (12 in/min)

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Humidity Resistance

24 hours at 90°F (32°C) and 90% relative humidity: No significant change in appearance or adhesion

Temperature Resistance

300°F (149°C) for 24 hours: Melted

250°F (121°C) for 24 hours: Very slight yellowing

175°F (79°C) for 24 hours: No significant visual change

-40°F (-40°C) for 10 days: No significant visual change

Printing

Facestock is topcoated treated for improved ink receptivity. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. It is not designed for thermal transfer printing. As always, the customer should test to confirm acceptability for their application.

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

- Labeling of small or irregular shape containers
- Labels requiring long term bond and piece removal
- Barcode labels and rating plates
- Property identification and asset labeling
- Warning, instruction, and service labels for durable goods
- Nameplates for durable goods
- Excellent for die-cut masks needing outdoor performance and removability

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. Use maximum laminating pressure for best results.

* When using solvents, read and follow the manufacturer's precautions and directions for use.

Industry Specifications

UL Recognized (File MH11410)

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 12 months from date of manufacture.

Available Sizes

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

Information

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ISO Statement

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

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