



Technical Data Sheet

3M™ Performance Paper Label Material 7110



[Product Details](#)



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Product Description

3M™ Performance Paper Label Material 7110 adheres well to a variety of surfaces including high (HSE) and low surface energy (LSE) plastics and provides resistance to flagging on small diameter vials. This product can be used as a tamper evident seal with the combination of fragile paper facestock and aggressive 3M™ Adhesive 320.

Product Features

- Facestock is ideal for traditional forms of press printing and write-on variable information. It is tamper evident on a variety of substrates.
- Adhesive adheres well to a variety of surfaces including high surface energy (HSE) and low surface energy (LSE) plastics. It provides resistance to flagging on small diameter vials.
- 43# Densified Kraft liner helps improve application accuracy due to liner release consistency.
- The construction is designed to survive autoclaving while adhered to most surfaces.

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	320 High Tenacity Acrylic
Facestock	Uncoated White Tamper Indicating Paper
Adhesive Coat Weight	1.66 — 2.04 g/100 in ²

Attribute Name	Value
Adhesive Thickness	0.02 mm (0.8 mil)
Facestock Thickness	0.07 mm (2.8 mil)
Liner	White DK liner
Liner Thickness	0.064 mm (2.5 mil)

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Test Method: ASTM D3330

Substrate	Value
Polypropylene (PP)	7.8 N/cm (71 oz/in) ¹
Stainless Steel	*paper tear N/cm ¹

¹ 304 mm/min (12 in/min)

Attribute Name	Value
Note	Calipers are nominal values (*Note: The adhesion to the substrate is higher than the internal strength of the paper resulting in delamination or paper tear upon removal.)

Typical Environmental Characteristics

Temperature Resistance

250°F (121°C) for 24 hours: no significant visual change
 -40°F (-40°C) for 24 hours: no significant visual change

Sterilization Process

Specifically designed for flagging resistance on small diameter glass vials following steam autoclave, gamma or ethylene oxide sterilization.

Printing

This coated paper facestock is imprintable using most flexo ink systems. Variable printing can be added with thermal, dot matrix.

Converting

Rotary die cutting is recommended. Fanfolding labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to prevent the adhesive from oozing. 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.

Handling/Application Information

Application Examples

- Pharmaceutical labeling.
- Meets many pharmaceutical industry or manufacturer specifications.
- Provides destructibility and is often used as a security or tamper-resistant closure.
- Barcode labels and rating plates.
- Property identification and asset labeling.

Application Techniques

Labels misaligned on glass containers on-line should be removed with water at room temperature.

Silicone overspray/contamination of the substrate can cause poor adhesion.

To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4) mils can help prevent humidity penetration and stabilize the moisture content in the siliconized kraft liner.

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

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ISO Statement

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