

# 3M Indoor UL Recognized MC Polyester Label Products

FM1182 • FM1183 • FM118B • FM118J • FM118K

Technical Data

May, 2006

**Product Description** 3M™ Indoor UL Recognized MC Polyester Label Products are white durable, high performance micro-cavitated polyester materials that offer excellent thermal stability and moisture resistance. These polyester labels utilize 3M™ Adhesive P1212, which is a high clarity general purpose acrylic emulsion that exhibits good initial tack, excellent die cutting properties, minimal cold flow, and good UV resistance.

Construction	Product Number	Facestock	Adhesive	Liner
	3M™ Indoor UL Recognized MC Polyester Label Product FM1182	.002 in. White Polyester MC	P1212 Perm. 18	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Indoor UL Recognized MC Polyester Label Product FM1183	.002 in. White Polyester MC	P1212 Perm. 18	78# CCK 4.7 mil stabilized clay coated two side kraft sheet
	3M™ Indoor UL Recognized MC Polyester Label Product FM118B	.002 in. White Polyester MC	P1212 Perm. 18	80# Polycr./Tissue 5.8 mil bleached kraft sheet coated with polyethylene on two sides and laminated with a tissue on the back side
	3M™ Indoor UL Recognized MC Polyester Label Product FM118J	.002 in. White Polyester MC	P1212 Perm. 18	55# Laser 3.6 mil stabilized clay coated two side bleached kraft sheet
	3M™ Indoor UL Recognized MC Polyester Label Product FM118K	.002 in. White Polyester MC	P1212 Perm. 18	83# Laser 5.9 mil stabilized bleached kraft sheet

(Calipers are nominal values)

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### Typical Physical Properties

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 0.9 mil of adhesive on a polished stainless steel panel.

<b>Peel Adhesion</b>	3.0 lbs./in. (616 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
<b>Loop Tack</b>	1.8 lbs./in. (316 N/m)	TLMI Method, 12"/min., 1" wide sample
<b>Shear</b>	3 hours	TLMI Method, 0.25 in <sup>2</sup> x 500g
<b>Adhesive Coat Weight</b>	1.75 g/100 in <sup>2</sup> ± 10%	3M Method E10MFP01
<b>Release Range</b>	3M™ Label Product FM1182	15 to 50 g/2 in. TLMI Method, 180° removal, 300 in./min.
	3M™ Label Products FM1183, FM118B	30 to 100 g/2 in. TLMI Method, 180° removal, 300 in./min.
	3M™ Label Products FM118J, FM118K	50 to 150 g/2 in. TLMI Method, 180° removal, 300 in./min.
<b>Service Temperature</b>	-20°F to 302°F (-29°C to 150°C)	
<b>Application Temperature</b>	40°F to 120°F (5°C to 49°C)	
<b>Conformability</b>	Semi-rigid – Label is suitable for flat or slightly curved surfaces.	

### Features

- Meets CONEG requirements.
- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105.
- UL recognized for indoor use files MH11410 and MH16411.
- Liner for 3M™ Indoor UL Recognized MC Polyester Label Product FM1182 is designed for high-speed die cutting and matrix stripping. This liner has been remoisturized after silicone coating to restabilize the sheet and reduce side curl, an excellent choice for perforation and fanfold applications.
- Liner for 3M™ Indoor UL Recognized MC Polyester Label Product FM1183 is excellent for sheet on press applications where additional strength and stiffness is required. The backside of this sheet is printable.
- Liner for 3M™ Indoor UL Recognized MC Polyester Label Product FM118B is recommended for high speed laser sheet applications. The backside of this liner is printable. Not recommended for desktop printers.
- Liner for 3M™ Indoor UL Recognized MC Polyester Label Products FM118J and FM118K has a special surface finish to enhance feed and reduce static problems. Ideal for copier and many desktop laser applications.

## 3M<sup>TM</sup> Indoor UL Recognized MC Polyester Label Products

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### Printing

- Special topcoat is designed for print receptivity with most film ink systems, thermal transfer, copiers and laser printers.

#### Water-based Flexo inks:

Akzo Nobel Hydro Film 4000 Series  
Arcar Ultra Film Series 5 Inks

#### Ribbons:

Sony 4070  
Sony 4075  
Sony 5070  
Iimak SP330

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### Application Ideas

- Durable goods, nameplates, product ID labels.

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### Storage Conditions

Store under normal conditions of 70°F (21°C) and 50% relative humidity. 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.

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### Shelf Life

To obtain best performance, use this product within two years from the date of manufacture.

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### Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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### Warranty and Limited Remedy

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

**Industrial Business  
Converter Markets  
Industrial Adhesives and Tapes Division**

1030 Lake Road  
Medina, OH 44256-0428  
800-422-8116 • 877-722-5072 (fax)  
www.3M.com/converter



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