



# White MC Polyester Label Products

## FM01972 • FM0197K • FM043102

Technical Data

February, 2005

### Product Description

3M™ White Micro-cavitated Polyester Label Products are durable, high performance materials that offer excellent thermal stability. These polyester label products utilize 3M™ Adhesive R3500, which is designed for use on smooth surfaces such as glass, metal and plastic (including polystyrene) and offers excellent UV resistance, good initial tack, and long term adhesion with clean removability and is an excellent alternative to static cling.

**Note:** As a removable adhesive, performance may vary depending upon the substrate to which it is applied. Therefore, extensive testing should be conducted prior to use and textured surfaces should be avoided. Not appropriate for children's toy or sticker applications.

### Construction

Product Number	Facestock	Adhesive	Liner
<b>3M™ Label Product FM01972</b>	.002 in. White Polyester MC	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
<b>3M™ Label Product FM0197K</b>	.002 in. White Polyester MC	R3500 Rem. 16	83# Laser 5.9 mil stabilized bleached kraft sheet
<b>3M™ Label Product FM043102</b>	.005 in. White Polyester MC	R3500 Rem. 16	50# SC Remoist - 50 3.1 mil semi-bleached super calendered 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>	<b>Approx.</b>	0.3 lbs./in. (53 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
<b>Loop Tack</b>	<b>Approx.</b>	0.5 lbs./in. (88 N/m)	TLMI Method, 12"/min., 1" wide sample
<b>Shear</b>		N/A	TLMI Method, 0.25 in <sup>2</sup> x 500g
<b>Adhesive Coat Weight</b>		1.55 g/100 in <sup>2</sup> ± 10%	3M Method E10MFP01
<b>Release Range</b>	3M™ Label Product FM01972	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M™ Label Product FM0197K	50 to 150 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M™ Label Product FM043102	20 to 60 g/2 in.	TLMI Method, 180° removal, 300 in./min.
<b>Service Temperature</b>		-20°F to 155°F (-29°C to 68°C)	
<b>Application Temperature</b>		40°F to 110°F (5°C to 43°C)	

## Features

- Good initial tack.
- Long term adhesion with clean removability.
- Repositionable.
- Excellent UV resistance.
- Liner for 3M™ White MC Polyester Label Product FM01972 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M™ White MC Polyester Label Product FM0197K has a special surface finish to enhance feed and reduce static problems. Ideal for copier and many desktop laser applications.
- Liner for 3M™ White MC Polyester Label Product FM043102 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.

## 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 6075  
Sony 6070  
Iimak SP330

## Application Ideas

- POP promotional labels, removable instruction 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.



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