



# Removable White Polypropylene Label Products

FP0122R2 • FP012202 • FP0169R2  
FP016902 • FP016903 • FP031105

Technical Data

February, 2006

## Product Description

3M™ Removable White Polypropylene Label Products are white opaque materials that offer excellent durability and moisture resistance. These label products utilize 3M™ Adhesive R3500, which is an ultra removable acrylic 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™ Removable White Polypropylene Label Product FP0122R2</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	<b>3M™ Label White Polypropylene Label Product FP012202</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	<b>3M™ Removable White Polypropylene Label Product FP0169R2</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	<b>3M™ Removable White Polypropylene Label Product FP016902</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	<b>3M™ Removable White Polypropylene Label Product FP016903</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	78# CCK 4.7 mil stabilized clay coated two side kraft sheet
	<b>3M™ Removable White Polypropylene Label Product FP031105</b>	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	90# Polyctd. 7.0 mil bleached kraft sheet polyethylene coated on two sides

(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 1.1 mil of adhesive on a polished stainless steel panel.

<b>Peel Adhesion</b>	Approx.	0.3 lbs./in. (53 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
<b>Loop Tack</b>	Approx.	0.5 lbs./in. (88 N/m)	TLMI Method, 12"/min., 1" wide sample
<b>Shear</b>		N/A	TLMI Method, 1 in. <sup>2</sup> x 1000g
<b>Adhesive Coat Weight</b>		1.55 g/100 in. <sup>2</sup> ± 10%	3M Method E10MFP01
<b>Release Range</b>	3M™ Label Products FP0122R2, FP012202, FP0169R2, FP016902	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M™ Label Products FP016903, FP031105	30 to 100 g/2 in.	TLMI Method, 180° removal, 300 in./min.
<b>Service Temperature</b>		-20°F to 140°F (-29°C to 60°C)	
<b>Application Temperature</b>		40°F to 110°F (5°C to 43°C)	

## Features

- Liner for 3M™ Removable White Polypropylene Label Products FP0122R2 and FP0169R2 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.
- Liner for 3M™ Removable White Polypropylene Label Products FP012202 and FP016902 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M™ Removable White Polypropylene Label Product FP016903 is excellent for sheet on press applications where additional strength and stiffness is required. The backside of this sheet is printable.
- Liner for 3M™ Removable White Polypropylene Label Product FP031105 is designed for the ultimate in layflat. The backside of this liner is not printable.

## Printing

- Topcoated to accept most film ink systems.  
**Water-based Flexo inks:**  
Water Ink Technologies, Inc. Versifilm  
Akzo Nobel Hydro Film 4000 Series

020-82250840

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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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## Limitation of Liability

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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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