



# Removable White Polypropylene Durable Label Material

FP0122R2 • FP012202 • FP0169R2  
FP016902 • FP016903 • FP031105

## Technical Data

July 2017

**Product Description** 3M™ Removable White Polypropylene Durable Label Materials 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
	3M™ Removable White Polypropylene Durable Label Material FP0122R2	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Removable White Polypropylene Durable Label Material FP012202	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Removable White Polypropylene Durable Label Material FP0169R2	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Removable White Polypropylene Durable Label Material FP016902	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Removable White Polypropylene Durable Label Material FP016903	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	78# CCK 4.7 mil stabilized clay coated two side kraft sheet
	3M™ Removable White Polypropylene Durable Label Material FP031105	.0023 in. White Polypropylene TC2S	R3500 Rem. 16	90# Polycoated 7.0 mil bleached kraft sheet polyethylene coated on two sides

(Calipers are nominal values)

# 3M™ Removable White Polypropylene Durable Label Materials

FP0122R2 • FP012202 • FP0169R2 • FP016902 • FP016903 • FP031105

## 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.

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

## Features

- Liner for 3M™ Removable White Polypropylene Durable Label Materials 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 Durable Label Materials 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 Durable Label Material 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 Durable Label Material FP031105 is designed for the ultimate in layflat. The backside of this liner is not printable.

## Printing

Topcoated to accept most film ink systems.

# 3M™ Removable White Polypropylene Durable Label Materials

FP0122R2 • FP012202 • FP0169R2 • FP016902 • FP016903 • FP031105

---

**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.

---

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

---

**Technical Information**

The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

---

**Product Selection and Use**

Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

---

**Warranty, Limited Remedy and Disclaimer**

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M’s option, replacement of the 3M product or refund of the purchase price.

---

**Limitation of Liability**

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



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

**3M**  
Industrial Adhesives and Tapes Division  
Converter Markets  
3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550  
3M.com/converter

3M is a trademark of 3M Company.  
©3M 2017 E70-0711-1217-4 (7/17)