



Removable Clear Polypropylene Label Products

FP0861 • FP0862 • FP0863 • FP0868 • FP0869

Technical Data

July, 2005

Product Description

3M™ Removable Clear Polypropylene Label Products 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	Facestock	Adhesive	Liner
3M™ Label Product FP0861	.002 in. Clear Polypropylene TC2S	R3500 Rem. 16	40# SC 2.4 mil semi-bleached super calendered kraft sheet
3M™ Label Product FP0862	.002 in. Clear Polypropylene TC2S	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
3M™ Label Product FP0863	.002 in. Clear Polypropylene TC2S	R3500 Rem. 16	78# CCK 4.7 mil stabilized clay coated two side kraft sheet
3M™ Label Product FP0868	.002 in. Clear Polypropylene TC2S	R3500 Rem. 16	44# Poly/Kraft 3.1 mil liner where polypropylene has been laminated to a 44# brown kraft sheet
3M™ Label Product FP0869	.002 in. Clear Polypropylene TC2S	R3500 Rem. 16	.0015 in. Clear Polyester Liner

(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 0.8 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 sample
Loop Tack	Approx.	0.5 lbs./in. (88 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear		N/A	TLMI Method, 1 in ² x 1000g
Adhesive Coat Weight		1.55 g/100 in ² ± 10%	3M Method E10MFP01
Release Range	3M™ Label Products FP0861, FP0862, FP0868	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M™ Label Product FP0863	30 to 100 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M™ Label Product FP0869	10 to 30 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 120°F (5°C to 49°C)	

Features

- Liner for 3M™ Removable Clear Polypropylene Label Products FP0861 and FP0862 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M™ Removable Clear Polypropylene Label Product FP0863 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 Clear Polypropylene Label Product FP0868 has excellent caliper control and strength making it ideal for high speed labeling applications.
- Liner for 3M™ Removable Clear Polypropylene Label Product FP0869 is used when high strength and caliper controls are important. Recommended for high speed labeling applications or where clarity of the adhesive is critical.

Printing

- Topcoated to accept most film ink systems and thermal transfer printing.

Water-based Flexo inks:

Water Ink Technologies, Inc. Versifilm
Akzo Nobel Hydro Film 4000 Series

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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.

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

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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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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Printed in U.S.A.
©3M 2005 70-0711-1244-8 (7/05)