



Clear Polyester Label Products

FM01860N • FM023402 • FM0234R2

Technical Data

March 2017

Product Description 3M™ Clear Polyester Label Products are durable, high performance materials that offer excellent thermal stability and moisture resistance. These 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
	3M™ Clear Polyester Label Product FM01860N	.002 in. Clear Polyester NTC	R3500 Rem. 16	.0015 in. Clear Polyester Liner
	3M™ Clear Polyester Label Product FM023402	.001 in. Clear Polyester NTC	R3500 Rem. 16	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Clear Polyester Label Product FM0234R2	.001 in. Clear Polyester NTC	R3500 Rem. 16	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet

(Calipers are nominal values)

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.

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, 0.25 in. ² x 500g
Adhesive Coat Weight		1.55 g/100 in. ² ± 10%	3M Method E10MFP01
Release Range		15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
Service Temperature		-20°F to 155°F (-29°C to 68°C)	
Application Temperature		40°F to 110°F (5°C to 43°C)	
Conformability		Semi-rigid – Label is suitable for flat or slightly curved surfaces.	

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Features

- Good initial tack.
- Long term adhesion with clean removability.
- Repositionable.
- Excellent UV resistance.
- Liner for 3M™ Clear Polyester Label Product FM01860N is used when high strength and caliper control are important. Recommended for high speed labeling applications or where clarity of the adhesive is critical.
- Liner for 3M™ Clear Polyester Label Product FM023402 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M™ Clear Polyester Label Product FM0234R2 is the same as FM023402 except the liner has been remoisturized after silicone coating to restabilize the sheet and reduce side curl, an excellent choice for perforation and fanfold applications.

Application Ideas

Pre-mask/paint masking applications.

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

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ISO 9001:2008

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.



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