



Polypropylene Durable Label Materials

FP022102 • FP022108 • FP026009

Technical Data

August 2005

Product Description 3M™ Polypropylene Durable Label Materials FP022102, FP022108 and FP026009 are matte white opaque materials that offer excellent durability and moisture resistance. They utilize 3M™ Adhesive P1480 which is a high performance tackified acrylic formulated for acid resistance and adhesion to polyolefins.

Construction

Product Number	Facestock	Adhesive	Liner
3M™ PP Durable Label Material FP022102	.003 in. Matte White Polypropylene EDP C1S	P1480 Perm. 24	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
3M™ PP Durable Label Material FP022108	.003 in. Matte White Polypropylene EDP C1S	P1480 Perm. 24	44# Polykraft 3.1 mil liner where polypropylene has been laminated to a 44# brown kraft sheet
3M™ PP Durable Label Material FP026009	.003 in. Matte White Polypropylene EDP C1S	P1480 Perm. 18	0.0015 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 1.1 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	5.0 lbs./in. (880 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample	
Loop Tack	3.5 lbs./in. (616 N/m)	TLMI Method, 12"/min., 1" wide sample	
Shear	1.0 hour	TLMI Method, 1 in. ² x 1000g	
Adhesive Coat Weight	3M™ PP Durable Label Materials FP022102, FP022108	2.3 g/100 in. ² ± 10%	3M Method E10MFP01
	FP026009	1.75 g/100 in. ² ± 10%	3M Method E10MFP01
Release Range	3M™ PP Durable Label Materials FP022102, FP022108	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	FP026009	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

- Topcoated to accept most film ink systems and is thermal transfer printable.
- Adhesive exhibits high initial tack and ultimate adhesion.
- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. (See 21 CFR 175.105)
- Liner for 3M™ Polypropylene Durable Label Material FP022102 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™ Polypropylene Durable Label Material FP022108 has excellent caliper control and strength making it ideal for high speed labeling applications.
- Liner for 3M™ Polypropylene Durable Label Material FP026009 is used when high strength and caliper control are important. Recommended for high speed labeling applications.

Die Cutting

Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.

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Application Ideas

Machinery, durable goods, ladder.

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 date of manufacture.

Technical Information

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ISO 9001

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



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