



Clear Polypropylene Label Products

FP024802 • FP025409 • FP032708

Technical Data

May, 2006

Product Description 3M™ Clear Polypropylene Label Products are clear materials that offer excellent durability and moisture resistance. These label products utilize 3M™ Adhesive P1480, which is a high performance tackified acrylic formulated for acid resistance and adhesion to polyolefins.

Construction	Product	Facestock	Adhesive	Liner
	3M™ Clear Polypropylene Label Product FP024802	.002 in. Clear Polypropylene TC2S	P1480 Perm. 24	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M™ Clear Polypropylene Label Product FP025409	.002 in. Clear Polypropylene TC2S	P1480 Perm. 18	0.0015 in. Clear Polyester Liner
	3M™ Clear Polypropylene Label Product FP032708	.002 in. Clear Polypropylene TC2S	P1480 Perm. 24	44# Poly/Kraft 3.1 mil liner where polypropylene has been laminated to a 44# brown 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 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 label products FP024802, FP032708 2.3 g/100 in. ² ± 10%	3M Method E10MFP01
	3M label product FP025409 1.75 g/100 in. ² ± 10%	3M Method E10MFP01
Release Range	3M label products FP024802, FP032708 15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	3M label product FP025409 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)	

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Features

- 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™ Clear Polypropylene Label Product FP024802 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™ Clear Polypropylene Label Product FP025409 is used when high strength and caliper control are important. Recommended for high speed labeling applications.
- Liner for 3M™ Clear Polypropylene Label Product FP032708 has excellent caliper control and strength making it ideal for high speed labeling applications.

Printing

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

Water-based Flexo inks:

Akzo Nobel, HydroFilm 400

Water Ink Technologies, Inc. Versifilm

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.

Application Ideas

- Machinery, durable goods, powder coated paints.

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.

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Product Use

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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 2006 70-0711-1203-4 (5/06)