

August, 2005

3M™ White Polypropylene Durable Label Material FP022102

Product Description

3M™ White Polypropylene Durable Label Material FP022102 is a matte white opaque material that offers excellent durability and moisture resistance. This label product utilizes 3M™ Adhesive P1480 which is a high performance tackified acrylic formulated for acid resistance and adhesion to polyolefins.



Product 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™ White 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.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Construction Tested

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.1 mil of adhesive on a polished stainless steel panel.

Typical Physical Properties

Property	Values	
Facestock	Matte White Polypropylene EDP C1S	
Facestock Thickness	0.08 mm	3 mil
Adhesive	P1480 Perm. 24	
Liner	50# SC Remoist semi-bleached super calendered kraft sheet	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	2.3 g/100 in ² ± 10%	

Note

Calipers are nominal values

Typical Performance Characteristics

Property	Values		Method	Notes
Service Temperature Range	-29 to 60 °C	-20 to 140 °F		
Application Temperature	5 to 49 °C	40 to 120 °F		
180° Peel Strength	8.8 N/cm	80 oz/in	TLMI	12 in/min, 1 in wide sample
Loop Tack	6.16 N/cm	56 oz/in	TLMI	12 in/min, 1 in wide sample
Shear	1.0 hr		TLMI	0.25 in ² x 500g
Liner Release Range	15 to 50 g/2 in		TLMI	180° removal, 300 in/min

Handling/Application Information

Application Ideas

Machinery, durable goods, ladder.



Converting

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.

Storage and Shelf Life

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. To obtain best performance, use this product within 24 months from the date of manufacture.

Industry Specifications

FDA 21 CFR 175.105

Information

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Trademarks

3M is a trademark of 3M Company.

References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=FP022102



Let Us Label You

3M™ White Polypropylene Durable Label Material FP022102

Family Group

	FP022101	FP022102	FP022108	FP026002	FP02600N	FP026009
Facestock	Matte White Polypropylene EDP C1S	Matte White Polypropylene EDP C1S	Matte White Polypropylene EDP C1S	Matte White Polypropylene EDP C1S	Matte White Polypropylene EDP C1S	Matte White Polypropylene EDP C1S
Facestock Thickness (mm)	0.08	0.08	0.08	0.08	0.08	0.08
Adhesive	P1480 Perm. 24	P1480 Perm. 24	P1480 Perm. 24	P1480 Perm. 18	P1480 Perm. 18	P1480 Perm. 18
Liner	40# SC semi-bleached super calendered kraft sheet	50# SC Remoist semi-bleached super calendered kraft sheet	44# Polykraft where polypropylene has been laminated to a 44# brown kraft sheet	50# SC Remoist semi-bleached super calendered kraft sheet	Clear Polyester	Clear Polyester
Liner Thickness (mm)	0.061	0.079	0.079	0.079	0.025	0.038

ISO Statement

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



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