

September, 2017

3M™ Indoor UL Recognized White Polyester Label Product FM122

Product Description

3M™ Indoor UL Recognized White Polyester Label Products are durable, high performance materials that offer excellent thermal stability and moisture resistance. These polyester labels utilize 3M™ Adhesive P1212, which is a high clarity general purpose acrylic emulsion that exhibits good initial tack, excellent die cutting properties, minimal cold flow, and good UV resistance.



Product Features

- Meets CONEG requirements.
- 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.
- UL recognized for indoor use files MH11410 and MH16411, CSA approved file 076836.
- Liner for 3M™ Indoor UL Recognized White Polyester Label Product FM122 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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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 0.9 mil of adhesive on a polished stainless steel panel.

Typical Physical Properties

Property	Values	
Facestock	White Polyester TC	
Facestock Thickness	0.051 mm	2 mil
Adhesive	P1212 Perm. 18	
Liner	50# SC semi-bleached super calendered kraft sheet	
Conformability	Semi-rigid – Label is suitable for flat or slightly curved surfaces.	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	1.75 g/100 in ² ± 10%	

Note

Calipers are nominal values

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Typical Performance Characteristics

Property	Values		Method	Notes
Application Temperature	5 to 49 °C	40 to 120 °F		
Service Temperature Range	-29 to 150 °C	-20 to 302 °F		
180° Peel Strength	5.28 N/cm	48 oz/in	TLMI	12 in/min, 1 in wide sample
Loop Tack	3.16 N/cm	28.8 oz/in	TLMI	12 in/min, 1 in wide sample
Shear	3 hr		TLMI	0.25 in ² x 500g
Release Range	15 to 50 g/2 in		TLMI	180° removal, 300 in/min

Handling/Application Information

Application Ideas

Durable goods, nameplates, product ID labels.

Printing

Gloss topcoat is designed to be printable with a variety of film inks and thermal transfer ribbons.

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 two years from the date of manufacture.

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Industry Specifications

UL recognized for indoor use (Files MH11410 and MH16411)
FDA 21 CFR 175.105
CSA approved file 076836
Meets CONEG requirements

References

1. Safety Data Sheet

Url: https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=FM122

ISO Statement

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

Technical Information

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