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3M™ Indoor UL Recognized White Vinyl Label Product FV032

Product Description

3M™ Indoor UL Recognized White Vinyl Label Products are flexible, conformable white vinyl label stocks that offer durability and moisture resistance. These vinyl 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.
- The polymerically plasticized nature of this soft, flexible vinyl imparts long term dimensional stability for demanding applications.
- Liner for 3M™ Indoor UL Recognized White Vinyl Label Product FV032 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	Soft White Vinyl TC3	
Facestock Thickness	0.089 mm	3.5 mil
Adhesive	P1212 Perm. 18	
Liner	50# SC semi-bleached super calendered kraft sheet	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	1.75 g/100 in ² ± 10%	

Note

Calipers are nominal values

Typical Performance Characteristics

Property	Values		Method	Notes
Application Temperature	5 to 49 °C	40 to 120 °F		
Service Temperature Range	-29 to 60 °C	-20 to 140 °F		
180° Peel Strength	6.16 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.

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Printing

Semi-gloss topcoating designed for use with a wide variety of flexo film inks and U.V. rotary letterpress inks.

Water-based Flexo inks:

Akzo Nobel Hydro Film 400 Series

Arcar Ultra Film Series 5 Inks

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.

Industry Specifications

Meets CONEG requirements

FDA 21 CFR 175.105

Family Group

	FV030	FV032	FV033	FV034	FV035	FV031	FV038	FV039	FV032R	FV03S	FV037
Facestock	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3	Soft White Vinyl TC3
Facestock Thickness (mm)	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
Adhesive	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18
Liner	60# SBK stabilized clay coated two side kraft sheet	50# SC semi-bleached super calendared kraft sheet	78# CCK stabilized clay coated two side kraft sheet	100# Printable bleached clay coated one side sheet	90# Polyctd. bleached kraft sheet polyethylene coated on two sides	40# SC semi-bleached super calendared kraft sheet	44# Poly/Kraft liner where polypropylene has been laminated to a 44# brown kraft sheet	Clear Polyester	50# SC Remoist semi-bleached super calendared kraft sheet	Clear Polyester	60# SC semi-bleached super calendared kraft sheet
Liner Thickness (mm)	0.086	0.079	0.12	0.19	0.18	0.079	0.079	0.038	0.079	0.1	0.086

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=FV032

ISO Statement

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

Product Use

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