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3M™ Automotive White Polyester MC Label Product FM034602

Product Description

3M™ Automotive White Micro Cavitated Polyester Label Product FM034602 is a durable, high performance material that offers excellent thermal stability and moisture resistance. This polyester label utilizes 3M™ Adhesive P1650, which is designed for use in demanding environments including automotive applications.



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.
- Designed to meet difficult automotive underhood specifications.
- Good moisture and humidity resistance.
- Liner is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Excellent thermal stability.
- Resistance to many automotive and industrial fluids.

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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 MC	
Facestock Thickness	0.051 mm	2 mil
Adhesive	P1650 Perm. 25	
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	2.4 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	-40 to 150 °C	-40 to 302 °F		
180° Peel Strength	7.04 N/cm	64 oz/in	TLMI	12 in/min, 1 in wide sample
Loop Tack	4.35 N/cm	40 oz/in	TLMI	12 in/min, 1 in wide sample
Shear	2 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, harsh environments, automotive underhood.

Printing

General purpose topcoating is designed for use with a variety of film inks, including flexo, screen, ion deposition, off set, letter press, hot stamp, and thermal transfer printing (the end user should fully evaluate specific ribbons for suitability).

Water-based Flexo inks:

Akzo Nobel Hydro Film 4000 Series

Arcar Ultra Film Series 5 Inks

Ribbons:

Sony 4070

Sony 4075

Sony 5070

limak SP330

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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

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=FM034602

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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