

3M™ Outdoor UL Recognized White Polyester Durable Label Material OFM03402

Product Description

3M[™] Outdoor UL Recognized White Polyester Durable Label Materials are durable, high performance materials that offer excellent thermal stability and moisture resistance. These polyester labels utilize 3M[™] Adhesive P1400, which is a high performance tackified acrylic designed for use in demanding environments.



Product Features

- UL recognized for indoor/outdoor use UL files MH11410 and MH16411.
- Adhesive offers good UV resistance and excellent adhesion to a wide variety of substrates, including polyolefins.
- Liner for 3M™ Outdoor UL Recognized White Polyester Durable Label Material OFM03402 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, an excellent choice for perforation and fanfold applications. The C2S version of this liner used in 3M™ Outdoor UL Recognized White Polyester Durable Label Material OFM040E has a light coating of silicone on the backside to reduce label pick.

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 1.0 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	P1400 Perm. 18	
Liner	50# SC Remoist semi-bleached super calendered kraft sheet	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	1.75 g/100 in² ± 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 150 °C	-20 to 302 °F	°F		
180° Peel Strength	3.85 N/cm	35.2 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	4 hr		TLMI	0.25 in² x 500g	
Release Range	15 to 50 g/2 in		TLMI	180° removal, 300 in/min	

Handling/Application Information

Application Ideas

- Nameplates and product ID labels.
- Durable goods, power tools, equipment and machinery, lawn and garden.

Printing

Gloss topcoat is designed to be printable with a variety of film inks and thermal transfer ribbons. The following inks and thermal transfer ribbons have been evaluated and found to give excellent adhesion when tested with 3M™ Tape 610 and 3M™ Tape 810. However, press conditions vary and proper evaluation using your specific conditions is critical and highly recommended for successful ink and ribbon adhesion.

Supplier UV Inks Ink Series **Printing Process** Letterpress XSYS Print Solutions UNV80071 USC50022 Screen USC10031 Screen Ultra Kote 1800 OPV **Environmental Inks** Flexo Nazdar PSST-3952 Screen 02-022, 80049, 02304, 021019 Norcote Screen Water Based **XSYS Print Solutions** HMF80071 Flexo Flexo HMF90100 MHF30004 Flexo Water Ink Technologies WFLO 42976 Flexo **Environmental Inks** Aqua Polyscreen Plus Flexo Aqua Poly Cup Flexo SCF 6551 Wykoff Inks Flexo Solvent Based FCTB65L2 Siegwerk Ink Flexo FCTD65L4 Flexo FCTE65L3 Flexo FCTH65L5 Gravure GV124 Nazdar Screen Thermal Transfer Ribbon Supplier Ribbon Series Ribbon Type Armor AXR7+ Resin DNP W137-C Wax M-250 Wax/Resin R510-W Resin SP330, DC400 iimak Resin Prime Mark, PM350 Wax/Resin B110A Ricoh Wax/Resin BC110C Resin 3022, 4085 Plus Wax Sony Resin (UV+) 4070 4075 Resin

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

UL recognized for indoor/outdoor use (Files MH11410 and MH16411)

Trademarks

3M is a trademark of 3M Company.

Family Group

	OFM0302	OFM0402	OFM0403	OFM0405	OFM040E	OFM0502	OFM03402
Facestock	White Polyester TC	White Polyester TC	White Polyester TC	White Polyester TC	White Polyester TC	White Polyester TC	White Polyester TC
Facestock Thickness (mm)	0.025	0.051	0.051	0.051	0.051	0.13	0.051
Adhesive	P1400 Perm. 16	P1400 Perm. 21	P1400 Perm. 21	P1400 Perm. 21	P1400 Perm. 21	P1400 Perm. 21	P1400 Perm. 18
Liner	50# SC Remoist semi-bleached super calendered kraft sheet	50# SC Remoist semi-bleached super calendered kraft sheet	78# White CCK bleached clay coated kraft sheet	90# Polyctd. bleached kraft sheet polyethylene coated on two sides	50# SC C2S semi-bleached super calendered kraft sheet	50# SC Remoist semi-bleached super calendered kraft sheet	50# SC Remoist semi- bleached super calendered kraft sheet
Liner Thickness (mm)	0.079	0.079	0.12	0.18	0.079	0.079	0.079

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=OFM03402

ISO Statement

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

Product Selection and Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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