

3M™ Outdoor UL Recognized Silver Polyester Durable Label Material OFM2402

Product Description

3M™ Outdoor UL Recognized Silver Polyester Durable Label Material OFM2402 is a durable, high performance material that offers excellent thermal stability and moisture resistance. This polyester label stock utilizes 3M™ Adhesive P1400, which is a high performance tackified acrylic designed for use in demanding environments.



Product Features

- Specially topcoated for print receptivity with most film ink systems and thermal transfer printing.
- UL recognized for indoor/outdoor use UL file MH11410.
- Adhesive offers good UV resistance and excellent adhesion to a wide variety of substrates, including polyolefins.
- Liner 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.

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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 1.0 mil of adhesive on a polished stainless steel panel.

Typical Physical Properties

Property	Values	
Facestock	Matte Silver 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 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 125 °C	-20 to 257 °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 in ² 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.

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Printing

High gloss general purpose topcoating for 3M™ Outdoor UL Recognized Silver Polyester Label Product OFM2402 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

Iimac SP330

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

	OFM2402	OFM2802
Facestock	Matte Silver Polyester TC	Bright Silver Polyester TC
Facestock Thickness (mm)	0.051	0.051
Adhesive	P1400 Perm. 18	P1400 Perm. 18
Liner	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

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=OFM2402

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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