



Technical Data Sheet

3M™ Durable Label Material OFM2402 Silver Polyester



Additional Info



Regulatory
Info/SDS

Product Description

3M™ Durable Label Material OFM2402 is a durable, high performance material that offers 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 files MH11410 and MH16411
- Adhesive offers UV resistance and 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 choice for perforation and fanfold applications.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Value
Adhesive Type	P1400 Perm. 18
Facestock	Matte Silver Polyester TC
Adhesive Coat Weight	1.75 g/100 in ² ± 10%

Attribute Name	Value
Facestock Thickness	0.051 mm (2 mil)
Liner	50# SC Remoist C2S semi-bleached super calendered kraft sheet
Liner Thickness	0.079 mm (3.1 mil)

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 Performance Characteristics

Test Method: TLMI

Attribute Name	Temperature	Substrate	Value
180° Peel Adhesion	23 °C (73 °F)	Stainless Steel	3.85 N/cm (35.2 oz/in) ¹
Liner Release	23 °C (73 °F)		3 — 9.8 g/cm (15 — 50 g/2 in) ²
Shear Adhesion			4 h ³
Loop Tack			3.16 N/cm (28.8 oz/in) ¹

¹ 300 mm/min (12 in/min)

² 180° removal, 300 in/min

³ 0.25 in² x 500g

Attribute Name	Value
Application Temperature	5 — 49 °C (40 — 120 °F)
Long Term Temperature Resistance	150 °C (302 °F) ¹
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) ¹

¹ Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Printing

High gloss general purpose topcoating for 3M™ Durable Silver Polyester Label Material 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
limak SP330

Handling/Application Information

Application Examples

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

Industry Specifications

UL Recognized, File PGGU2.MH11410, Marking & Labeling System Materials - Component, ANSI/UL 969
UL Recognized, File PGJ12.MH16411, Printing Materials - Component, ANSI/UL 969

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in a sealed plastic bag, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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