



Technical Data Sheet

3M™ Outdoor UL Recognized Brushed Silver Polyester Durable Label Material OFM2902



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Outdoor UL Recognized Brushed Silver Polyester Durable Label Materials are durable high performance materials that offer 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 excellent adhesion to a wide variety of substrates, including polyolefins.
- Liner for 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.

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	Brushed Silver Polyester TC
Adhesive Coat Weight	1.75 g/100 in ² ± 10%

Attribute Name	Value
Facestock Thickness	0.05 mm (2 mil)
Liner	50# SC Remoist 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	22 °C (72 °F)	Stainless Steel	3.85 N/cm (35.2 oz/in) ¹
Liner Release	22 °C (72 °F)		15 — 50 g/2 in ²
Shear Adhesion			7 h ³
Loop Tack			3.16 N/cm (28.8 oz/in) ¹

¹ 12 in/min (300 mm/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 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
Iimак SP330

Handling/Application Information

Application Examples

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

Industry Specifications

MH11410
MH16411

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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