



Technical Data Sheet

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



Additional Info

Product Description

3M™ Outdoor UL Recognized White 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 files MH11410 and MH16411, CSA Group Certified file 99316
- Adhesive offers UV resistance and 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 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.

Typical Physical Properties

Attribute Name	Value
Adhesive Type	P1400 Perm. 18
Facestock	White 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 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

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 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
XSYS Print Solutions UNV80071 Letterpress
USC50022 Screen
USC10031 Screen
Environmental Inks Ultra Kote 1800 OPV Flexo
Nazdar PSST-3952 Screen
Norcote 02-022, 80049, 02304, 021019 Screen

Water Based
XSYS Print Solutions HMF80071 Flexo
HMF90100 Flexo
MHF30004 Flexo
Water Ink Technologies WFLO 42976 Flexo
Environmental Inks Aqua Polyscreen Plus Flexo
Aqua Poly Cup Flexo
Wykoff Inks SCF 6551 Flexo

Solvent Based
Siegwerk Ink FCTB65L2 Flexo
FCTD65L4 Flexo
FCTE65L3 Flexo
FCTH65L5 Gravure
Nazdar GV124 Screen

Thermal Transfer Ribbon Supplier Ribbon Series Ribbon Type
Armor AXR7 + Resin
DNP W137-C Wax
M-250 Wax/Resin
R510-W Resin
iimak SP330, DC400 Resin
Prime Mark, PM350 Wax/Resin
Ricoh B110A Wax/Resin
BC110C Resin
Sony 3022, 4085 Plus Wax
4070 Resin (UV+)
4075 Resin

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
CSA Group Certified, File 99316, Class 7922, Adhesive-Type Labels - Label Stock, CSA-C22.2 No. 0.15-15 Update No. 1

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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