



# Outdoor UL Recognized Silver Polyester Label Product

## OFM2402 • OFM2802

Technical Data

July, 2010

**Product Description** 3M™ Outdoor UL Recognized Silver Polyester Label Products OFM2402 and OFM2802 are durable, high performance materials that offer excellent thermal stability and moisture resistance. These polyester label stocks utilize 3M™ Adhesive P1400, which is a high performance tackified acrylic designed for use in demanding environments.

Construction	Product Number	Facestock	Adhesive	Liner
	<b>3M label product OFM2402</b>	.002 in. Matte Silver Polyester TC	P1400 Perm. 18	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	<b>3M label product OFM2802</b>	.002 in. Bright Silver Polyester TC	P1400 Perm. 18	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet

(Calipers are nominal values)

### Typical Physical Properties

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

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.0 mil of adhesive on a polished stainless steel panel.

<b>Peel Adhesion</b>	2.2 lbs./in. (528 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
<b>Loop Tack</b>	1.8 lbs./in. (316 N/m)	TLMI Method, 12"/min., 1" wide sample
<b>Adhesive Coat Weight</b>	1.75 g/100 in. <sup>2</sup> ± 10%	3M Method E10MFP01
<b>Shear</b>	4 hours	TLMI Method, 0.25 in. <sup>2</sup> x 500g
<b>Release Range</b>	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
<b>Application Temperature</b>	40°F to 120°F (5°C to 49°C)	
<b>Service Temperature</b>	-20°F to 257°F (-29°C to 125°C)	

### Features

- Specially topcoated for print receptivity with most film ink systems and thermal transfer printing.
- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105.
- 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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## 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  
 Iimak SP330

- Gloss topcoat for 3M™ Outdoor UL Recognized Silver Polyester Label Product OFM2802 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
XSYS Print Solutions	UNV80071	Letterpress
	USC50022	Screen
	USC10031	Screen
Environmental Inks Nazdar Norcote	Ultra Kote 1800 OPV	Flexo
	PSST-3952	Screen
	02-022, 80049, 02304, 021019	Screen
<b>Water Based</b>		
XSYS Print Solutions	HMF80071	Flexo
	HMF90100	Flexo
	MHF30004	Flexo
Water Ink Technologies Environmental Inks	WFLO 42976	Flexo
	Aqua Polyscreen Plus	Flexo
Wykoff Inks	Aqua Poly Cup	Flexo
	SCF 6551	Flexo
<b>Solvent Based</b>		
Siegwerk Ink	FCTB65L2	Flexo
	FCTD65L4	Flexo
	FCTE65L3	Flexo
	FCTH65L5	Gravure
	GV124	Screen
Nazdar		
<b>Thermal Transfer Ribbon Supplier</b>		
Armor DNP	AXR7 +	Resin
	W137-C	Wax
iimak	M-250	Wax/Resin
	R510-W	Resin
	SP330, DC400	Resin
Ricoh	Prime Mark, PM350	Wax/Resin
	B110A	Wax/Resin
Sony	BC110C	Resin
	3022, 4085 Plus	Wax
	4070	Resin (UV+)
	4075	Resin

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**Application Ideas**

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

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**Storage Conditions**

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.

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**Shelf Life**

To obtain best performance, use this product within two years from the date of manufacture.

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**Technical Information**

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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**Product Use**

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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