



Technical Data Sheet

3M™ Durable Label Material OFV0202



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Product Description

3M™ Durable Label Material OFV0202 is a flexible, conformable white vinyl label stock that offers durability and moisture resistance. These vinyl label product utilizes 3M™ Adhesive P1400, which is a high performance tackified acrylic designed for use in demanding environments.

Product Features

- UL recognized (File MH16411). See the UL listings for details.
- The polymerically plasticized nature of this soft flexible vinyl imparts long term dimensional stability for demanding applications.
- 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. Not recommended for sheet on press applications.
- Excellent for thermal transfer printing with composite and resin ribbons. (The end user should fully evaluate specific ribbons for suitability.)

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.
Facestock	Soft White Vinyl TC3

Attribute Name	Value
Adhesive Thickness	0.023 mm (0.9 mil)
Facestock Thickness	0.089 mm (3.5 mil)
Liner	50# SC
Liner Thickness	0.079 mm (3.1 mil)

Attribute Name	Value
Convertability	3M™ Outdoor Acrylic Adhesive P1400 is specifically designed to be compatible with a variety of print methods and end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used.

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: TLM1

Attribute Name	Temperature	Substrate	Value
180° Peel Adhesion	23 °C (73 °F)	Stainless Steel	3.8 N/cm (35 oz/in) ¹
Shear Adhesion			4 h ²
Loop Tack			3.16 N/cm (28.8 oz/in) ¹

¹ 304 mm/min (12 in/min)

² 0.25 in² x 500g

Attribute Name	Value
Application Temperature	5 – 49 °C (40 – 120 °F)
Long Term Temperature Resistance	60 °C (140 °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

A clear high gloss topcoating designed for use with a wide variety of film ink systems. Excellent for thermal transfer printing with composite and resin ribbons. (The end user should fully evaluate specific ribbons for suitability.)

Handling/Application Information

Application Examples

- Durable goods, power tools, equipment and machinery, lawn and garden.

Application Techniques

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.*For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 40°F (5°C) can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.*When using solvents, read and follow the manufacturer's precautions and directions for use.

Industry Specifications

UL Recognized (File 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 the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Packaging	Finished labels should be stored in plastic bags.

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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