



Vinyl Label Product

OFV0202

Technical Data

February, 2005

Product Description 3M™ Vinyl Label Product 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.

Construction	Facestock	Adhesive	Liner
	0.0035 in. Soft White Vinyl TC6	P1400 Perm. 0.9 mil	50# SC 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.

Peel Adhesion	2.2 lbs./in. (528 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	1.8 lbs./in. (316 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	4 hours	TLMI Method, 0.25 in. ² x 500g
Adhesive Coat Weight	1.75 g/100 in. ² ± 10%	3M Method E10MFP01
Release Range	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
Facestock Service Temperature Range	-20°F to 140°F (-29°C to 60°C)	
Application Temperature	40°F to 120°F (5°C to 49°C)	
Service Temperature*	-20°F to 302°F (-29°C to 150°C)	

*Actual service temperature is a function of the entire construction, including the facestock. Care should be taken to match facestock temperature limitations, with the label application requirements.

Features

- Excellent for thermal transfer printing with composite and resin ribbons. (The end user should fully evaluate specific ribbons for suitability.)
- The polymerically plasticized nature of this soft flexible vinyl imparts long term dimensional stability for demanding applications.
- Meets CONEG requirements.
- 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 files MH16411.
- Liner is designed for high-speed die-cutting and matrix stripping. Not recommended for sheet on press applications.

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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.)

Water-based Flexo inks:

Akzo Nobel Hydro Film 4000 Series
Arcar Ultra Film Series 5 Inks

Ribbons:

Sony 4070
Sony 4075
Sony 5070
Imak SP330

Application Ideas

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

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.

Shelf Life

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

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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