



Semi-Rigid White Vinyl Label Products

FV023102 • FV025102 • FV026302

Technical Data

May, 2006

Product Description 3M™ Semi-Rigid White Vinyl Label Products FV023102, FV025102 and FV026302 offer durability and moisture resistance. The polymerically plasticized nature of this vinyl imparts long term dimensional stability for demanding applications. These label products utilize 3M™ Adhesive P1480 which is a high performance tackified acrylic formulated for acid resistance and adhesion to polyolefins.

Construction	Product Number	Facestock	Adhesive	Liner
	3M label product FV023102	.0035 in. Semi-rigid White Vinyl TC3	P1480 Perm. 24	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M label product FV025102	.006 in. Semi-rigid White Vinyl TC3	P1480 Perm. 24	50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet
	3M label product FV026302	.0035 in. Semi-rigid White Vinyl EDP	P1480 Perm. 24	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 1.1 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	5.0 lbs./in. (880 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	3.5 lbs./in. (616 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	1.0 hour	TLMI Method, 1 in ² x 1000g
Adhesive Coat Weight	2.3 g/100 in ² ± 10%	3M Method E10MFP01
Release Range	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
Service Temperature	-20°F to 140°F (-29°C to 60°C)	
Application Temperature	40°F to 120°F (5°C to 49°C)	

Features

- Adhesive exhibits high initial tack and ultimate adhesion and is designed to meet the demanding requirements of most battery label specifications.
- 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.
- 3M label products FV023102 and FV025102 utilize a semi-gloss topcoating designed for use with a wide variety of flexo and U.V. rotary letter press film inks.

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Features (*continued*)

- 3M™ Semi-Rigid White Vinyl Label Product FV026302 utilizes an absorbent matte topcoat designed for computer imprinting applications, including dot matrix/impact. The coating also accepts flexo, screen, ion deposition, off set, letter press, and thermal transfer printing. (the end user should fully evaluate specific ribbons for suitability). This topcoat will also accept ball point pen ink for signatures and other marking.
- 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.

Die Cutting

Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.

Application Ideas

- Battery, machinery, durable goods, ladder.

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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