



Soft White Vinyl EDP Label Products

FV100K • FV1002

Technical Data

July 2016

Product Description

3M™ Soft White Vinyl EDP Label Products FV100K and FV1002 are flexible vinyl label stocks that offer excellent durability and some moisture resistance. These vinyl labels utilize 3M™ Adhesive F2201 which is a freezer grade acrylic that offers high initial tack, good clarity, and adhesion when applied at temperatures as low as 0°F and also has excellent processing characteristics and offers exceptional adhesion to a wide variety of substrates with moderate resistance to water and humidity.

Construction

Product Number	Facestock	Adhesive	Liner
3M label product FV100K	.0035 in. Soft White Vinyl EDP	F2201 Freezer 16	77# Laser 4.6 mil stabilized bleached kraft sheet
3M label product FV1002	.0035 in. Soft White Vinyl EDP	F2201 Freezer 16	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 0.9 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	2.0 lbs./in. (387 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	2.0 lbs./in. (387 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	1.0 hour	TLMI Method, 0.25 in. ² x 500g
Adhesive Coat Weight	1.55 g/100 in. ² ± 10%	3M Method E10MFP01
Release Range 3M label product FV100K 3M label product FV1002	50 to 250 g/2 in.	TLMI Method, 180° removal, 300 in./min.
	15 to 50 g/2 in.	TLMI Method, 180° removal, 300 in./min.
Service Temperature	-40°F to 140°F (-40°C to 60°C)	
Application Temperature	0°F to 120°F (-18°C to 49°C)	

Features

- 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.
- The polymerically plasticized nature of this soft flexible vinyl imparts long term dimensional stability for demanding applications.
- Liner for 3M label product FV100K has a special surface finish to enhance feed and reduce static problems. Ideal for copier and many desktop laser applications.
- Liner for 3M label product FV1002 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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Printing

- An absorbent matte vinyl topcoating designed for computer imprinting applications. This coating works well in dot matrix, thermal transfer and laser imaging applications. Also accepts flexo and thermal transfer printing and can be written on with ball point pens and markers. (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
Water Ink Technologies, Inc. Versifilm

Ribbons:

Sony 4070
Sony 6075
Sony 6070
Iimak SP330

Application Ideas

- Drum labels, frozen foods.

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.

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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ISO 9001

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



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