

3M

Soft Translucent Vinyl Label Products

FV172 • FV173

Technical Data

December, 2004

Product Description 3M™ Soft Translucent Vinyl Label Products FV172 and FV173 are flexible, conformable matte clear vinyl label stocks that offer durability and moisture resistance. These vinyl labels utilize 3M™ Adhesive P1212, which is a high clarity general purpose acrylic emulsion that exhibits good initial tack, excellent die cutting properties, minimal cold flow, and good UV resistance.

Construction	Product Number	Facestock	Adhesive	Liner
	3M label product FV172	.0035 in. Soft Translucent Vinyl TC1	P1212 Perm. 18	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M label product FV173	.0035 in. Soft Translucent Vinyl TC1	P1212 Perm. 18	78# CCK 4.6 mil stabilized clay coated two side 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	3.0 lbs./in. (616 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	3 hours	TLMI Method, 0.25 in. ² x 500g
Adhesive Coat Weight	1.75 g/100 in. ² ± 10%	Emtech Method E10MFP01
Release Range	3M label product FV172	15 to 50 g/2 in. TLMI Method, 180° removal, 300 in./min.
	3M label product FV173	30 to 100 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

- 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 FV172 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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Features (continued)	<ul style="list-style-type: none">• Liner for 3M™ Soft Translucent Vinyl Label Product FV173 is excellent for sheet on press applications where additional strength and stiffness is required. The backside of this sheet is printable.
Printing	<ul style="list-style-type: none">• Semi-gloss topcoating designed for use with water-based flexo film inks.
Application Ideas	<ul style="list-style-type: none">• Durable goods, nameplates, product ID labels.
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.

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



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©3M 2004 70-0711-1160-6 (12/04)