



# White Vinyl Label Products

## FV021605 • FV0216R2

Technical Data

May, 2006

### Product Description

3M™ White Vinyl Label Products FV021605 and FV0216R2 are flexible and conformable materials that offer durability and moisture resistance. The polymerically plasticized nature of this soft flexible 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	Facestock	Adhesive	Liner
<b>3M label product FV021605</b>	.0035 in. Soft White Vinyl NTC	P1480 Perm. 24	90# Polycyd. 7.0 mil bleached kraft sheet polyethylene coated on two sides
<b>3M label product FV0216R2</b>	.0035 in. Soft White Vinyl NTC	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.

<b>Peel Adhesion</b>	5.0 lbs./in. (880 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
<b>Loop Tack</b>	3.5 lbs./in. (616 N/m)	TLMI Method, 12"/min., 1" wide sample
<b>Shear</b>	1.0 hour	TLMI Method, 1 in <sup>2</sup> x 1000g
<b>Adhesive Coat Weight</b>	2.3 g/100 in <sup>2</sup> ± 10%	3M Method E10MFP01
<b>Release Range</b>	3M Emtech label product FV021605	20 to 80 g/2 in. TLMI Method, 180° removal, 300 in./min.
	3M Emtech label product FV0216R2	15 to 50 g/2 in. TLMI Method, 180° removal, 300 in./min.
<b>Service Temperature</b>	-20°F to 140°F (-29°C to 60°C)	
<b>Application Temperature</b>	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.
- Liner for 3M label product FV21605 is designed for the ultimate in layflat. The backside is not printable.
- Liner for 3M label product FV216R2 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.

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FV021605 • FV0216R2

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<b>Die Cutting</b>	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.
<b>Application Ideas</b>	<ul style="list-style-type: none"><li>• Battery, machinery, durable goods, ladder, powder coated paints.</li></ul>
<b>Storage Conditions</b>	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.
<b>Shelf Life</b>	To obtain best performance, use this product within two years from the date of manufacture.
<b>Product Use</b>	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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