



# White Vinyl Label Products

FV023202 • FV023205 • FV024702 • FV026505

## Technical Data

May, 2006

### Product Description

3M™ White Vinyl Label Products are flexible and conformable materials that offer durability and moisture resistance. The polymerically plasticized nature of this soft 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™ White Vinyl Label Product FV023202</b> | .0035 in. Soft White Vinyl TC3 | P1480 Perm. 24 | 50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet         |
| <b>3M™ White Vinyl Label Product FV023205</b> | .0035 in. Soft White Vinyl TC3 | P1480 Perm. 24 | 90# Polycd. 7.0 mil bleached kraft sheet polyethylene coated on two sides |
| <b>3M™ White Vinyl Label Product FV024702</b> | .0035 in. Soft White Vinyl TC3 | P1480 Perm. 18 | 50# SC Remoist 3.1 mil semi-bleached super calendered kraft sheet         |
| <b>3M™ White Vinyl Label Product FV026505</b> | .0035 in. Soft White Vinyl TC3 | P1480 Perm. 40 | 90# Polycd. 7.0 mil bleached kraft sheet polyethylene coated on two sides |

(Calipers are nominal values)

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## 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><br>3M™ Label Products FV023202, FV023205<br><br>3M™ Label Product FV024702<br><br>3M™ Label Product FV026505 | 2.3 g/100 in <sup>2</sup> ± 10%  | 3M Method E10MFP01                               |
|  | 1.75 g/100 in <sup>2</sup> ± 10% | 3M Method E10MFP01                               |
|  | 3.9 g/100 in <sup>2</sup> ± 10%  | 3M Method E10MFP01                               |
| <b>Release Range</b><br>3M label products FV023202, FV024702<br><br>3M label products FV023205, FV026505                                 | 15 to 50 g/2 in.                 | TLMI Method, 180° removal, 300 in./min.          |
|  | 20 to 80 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

- Semi-gloss topcoating designed for use with a wide variety of flexo and U.V. rotary letter press film inks.
- 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™ White Vinyl Label Products FV23202 and FV024702 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.
- Liner for 3M™ White Vinyl Label Products FV23205 and FV26505 is designed for ultimate layflat. The backside is not printable.

## 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, powder coated paints.

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## 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.

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## Shelf Life

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

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## 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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## Warranty and Limited Remedy

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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.



**Industrial Business  
Converter Markets  
Industrial Adhesives and Tapes Division**

1030 Lake Road  
Medina, OH 44256-0428  
800-422-8116 • 877-722-5072 (fax)  
www.3M.com/converter



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