



White Polyester Label Products

FM1732 • FM1732R

Technical Data

January, 2007

Product Description

3M™ White Polyester Label Products FM1732 and FM1732R are durable, high performance materials that offer excellent thermal stability. These polyester label products utilize 3M™ Adhesive R3500, which is designed for use on smooth surfaces such as glass, metal and plastic (including polystyrene) and offers excellent UV resistance, good initial tack, and long term adhesion with clean removability and is an excellent alternative to static cling.

Note: As a removable adhesive, performance may vary depending upon the substrate to which it is applied. Therefore, extensive testing should be conducted prior to use and textured surfaces should be avoided. Not appropriate for children's toy or sticker applications.

Construction

| Product Number | Facestock | Adhesive | Liner |
|----------------------------------|-----------------------------|---------------|--|
| 3M label product FM1732 | .002 in. White Polyester TC | R3500 Rem. 16 | 50# SC 3.1 mil semi-bleached super calendered kraft sheet |
| 3M™ label product FM1732R | .002 in. White Polyester TC | R3500 Rem. 16 | 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 0.9 mil of adhesive on a polished stainless steel panel.

| | | | |
|--------------------------------|---------|----------------------------------|--|
| Peel Adhesion | Approx. | 0.3 lbs./in. (53 N/m) | TLMI Method, 180° Peel, 12"/min., 1" wide sample |
| Loop Tack | Approx. | 0.5 lbs./in. (88 N/m) | TLMI Method, 12"/min., 1" wide sample |
| Shear | | N/A | TLMI Method, 0.25 in ² x 500g |
| Adhesive Coat Weight | | 1.55 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 155°F (-29°C to 68°C) | |
| Application Temperature | | 40°F to 110°F (5°C to 43°C) | |

Features

- Good initial tack.
- Long term adhesion with clean removability.
- Repositionable.
- Excellent UV resistance.
- Liner for 3M label product FM1732 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M label product FM1732R 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.

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Printing

- Gloss topcoat is designed to be printable with a variety of film inks and thermal transfer ribbons. The following inks and thermal transfer ribbons have been evaluated and found to give excellent adhesion when tested with 3M™ Tape 610 and 3M™ Tape 810. However, press conditions vary and proper evaluation using your specific conditions is critical and highly recommended for successful ink and ribbon adhesion.

| Supplier UV Inks | Ink Series | Printing Process |
|-------------------------|------------------------------|--------------------|
| XSYS Print Solutions | UNV80071 | Letterpress |
| | USC50022 | Screen |
| | USC10031 | Screen |
| Environmental Inks | Ultra Kote 1800 OPV | Flexo |
| Nazdar | PSST-3952 | Screen |
| Norcote | 02-022, 80049, 02304, 021019 | Screen |
| Water Based | | |
| XSYS Print Solutions | HMF80071 | Flexo |
| | HMF90100 | Flexo |
| | MHF30004 | Flexo |
| Water Ink Technologies | WFLO 42976 | Flexo |
| Environmental Inks | Aqua Polyscreen Plus | Flexo |
| | Aqua Poly Cup | Flexo |
| Wykoff Inks | SCF 6551 | Flexo |
| Solvent Based | | |
| Siegwerk Ink | FCTB65L2 | Flexo |
| | FCTD65L4 | Flexo |
| | FCTE65L3 | Flexo |
| | FCTH65L5 | Gravure |
| Nazdar | GV124 | Screen |
| Thermal Transfer | | |
| Ribbon Supplier | Ribbon Series | Ribbon Type |
| Armor | AXR7 + | Resin |
| DNP | W137-C | Wax |
| | M-250 | Wax/Resin |
| | R510-W | Resin |
| iimak | SP330, DC400 | Resin |
| | Prime Mark, PM350 | Wax/Resin |
| Ricoh | B110A | Wax/Resin |
| | BC110C | Resin |
| Sony | 3022, 4085 Plus | Wax |
| | 4070 | Resin (UV+) |
| | 4075 | Resin |

Application Ideas

- Instruction labels, POP promotional labels, pre-mask/paint mask applications.

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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.

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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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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