



Single-Ply Blood Bag Tracking Label Materials

FP035402 • FP036002 • FPE0570N

Technical Data

November, 2008

Product Description 3M™ Single-Ply Blood Bag Tracking Label Materials FP035402, FP036002 and FPE0570N offer excellent durability, conformability and moisture resistance. These label products utilize 3M™ Adhesive P1650, which is designed for use in demanding environments experienced by blood bag tracking labels.

Construction	Product Number	Facestock	Adhesive	Liner
	3M label product FP035402	.0033 in. White Polyolefin	P1650 Perm. 25	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M label product FP036002	.0038 in. White Polypropylene EDP	P1650 Perm. 25	50# SC 3.1 mil semi-bleached super calendered kraft sheet
	3M label product FPE0570N	.004 in. Gloss White Polyethylene	P1650 Perm. 25	.0015 in. Clear Polyester Liner

(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.

Peel Adhesion	4.0 lbs./in. (704 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	2.5 lbs./in. (435 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	2 hours	TLMI Method, 1 in ² x 1000g
Adhesive Coat Weight	2.16 to 2.64 g/100 in ²	3M Method E10MFP01
Release Range	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	40°F to 120°F (5°C to 49°C)	
Convertability	3M™ High Performance Acrylic Adhesive P1650 typically utilizes a higher adhesive caliper for adhesion to a variety of surfaces. When converting labels for thermal transfer applications, care should be taken with regard to proper roll tensions, handling and storage conditions. Please refer to the die cutting/converting section of this data page or the "Guide to Converting and Handling Label Products" technical bulletin for additional information.	

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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.
- Liner for 3M™ Single-Ply Blood Bag Tracking Label Material FP035402 and FP036002 is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
- Liner for 3M™ Single-Ply Blood Bag Tracking Label Material FPE0570N is used when high strength and caliper control are important. Recommended for high speed labeling applications or where clarity of the adhesive is critical.
- The facestocks for these constructions are extremely pliable and conformable. This makes them ideal for the freeze and centrifuge challenges experienced by blood bags.
- These label materials are designed to only be used in blood bag applications which originate post sterilization.
- 3M label materials FP035402 and FPE0570N are FDA submitted per DMF #20200.
- 3M label material FP036002 is FDA submitted per DMF #21889.
- The 3M testing protocol for blood bag tracking label materials include:
 - Proof of ISO9001:2000 manufacturing process and material certification.
 - Adhesion studies following ARC freeze / thaw cycle protocol.
 - Study of migration species of extractable, leachable materials.
- For additional information pertaining to FDA and blood bag tracking labels, please refer to our product information bulletin “Common questions about Blood Bag Tracking Label Materials.”

Printing

- Label is treated to accept most film ink systems. The customer must be sure to test specific print systems to ensure printability.

Application Ideas

- Blood bag labels, durable goods, product ID.

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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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 9001:2000

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



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