



Polyolefin Label Material FP0354EG

Product Data Sheet

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Product Description

3M™ White Polyolefin Label Product FP0354EG is a matte white opaque material that offers excellent durability and conformability. This label product utilizes 3M™ Adhesive P1650, which is designed for use in demanding environments.

Physical Properties

(Callipers are nominal values)

Facestock	84 micron, Matte White Polyolefin
Adhesive	38 g/m ² , Permanent Acrylic P1650
Liner	56 micron (63gsm) white glassine 65WG

Key Features

- High coat weight adhesive P1650 is designed for use on difficult surfaces in demanding environment, offers good thermal stability, chemical and moisture resistance.
- 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.
- Densified glassine liner is designed for high-speed consistent die cutting and matrix stripping. Not recommended for sheet on press applications.
- The polyolefin facestock for this construction is extremely pliable and conformable. This makes it ideal for applications where the facestock must conform with changes in the substrate

Application Ideas

- Durable goods identification
- Labelling medical or analytical equipment (tubes, vials)
- Labelling products with curved surfaces.

Performance Characteristics

Standard Test Conditions are 23°C and 50% Relative Humidity
180° Peel Adhesion tested using FINAT Test Procedure FTM 1 (300mm/min)

Adhesion	72 Hours at Standard Conditions
	180° Peel N/25mm
Stainless Steel	18,2
ABS	17,7
Polycarbonate	18,0
Polypropylene	18,1

Environmental ageing
(peel test after 24h dwell at standard conditions)

Adhesion	72 Hours at 40°C and 95% RH
	180° Peel N/25mm
Stainless Steel	11,7

Temperature resistance of label applied to stainless steel.
No visual changes after 72 hours exposure

Service Temperature	- 40°C to 120°C
Application Temp.	min. 5°C

Processing

Printing:

Label is treated to accept most film ink systems including traditional press print methods as well as digital systems (thermal transfer, UV ink jet, etc.). The customer must be sure to test specific print systems to ensure printability.

Die Cutting:

Due to higher adhesive caliper when converting labels, care should be taken with regard to proper roll tensions and conditions to protect from oozing. Rotary die cutting is recommended.

Packaging:

Finished labels should be stored in plastic polyethylene bags

Special Considerations

For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent.

NOTE:

When using solvents, read and follow the manufacturer's precautions and directions for use.

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 5°C can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.

Storage Store in the original packaging at standard room temperature conditions of 15°-25°C and 40-60 % relative humidity

Shelf Life 24 months from date of manufacture

For Additional Information To request additional product information or to arrange for sales assistance, please see below for contact details.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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