



# Polyolefin Label Material FP0354EG

## Product Data Sheet

Date: August 2014  
Supersedes: November 2013

### 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)

|                  |   |
|------------------|---|
| <b>Facestock</b> | 84 micron, Matte White Polyolefin             |
| <b>Adhesive</b>  | 38 g/m <sup>2</sup> , Permanent Acrylic P1650 |
| <b>Liner</b>     | 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<br>Standard Conditions |
|-----------------|------------------------------------|
|                 | 180° Peel<br>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<br>40°C and 95% RH |
|-----------------|--------------------------------|
|                 | 180° Peel<br>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, call local 3M representative.  
Address correspondence see below.

---

**Important Notice** 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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

---

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

---

3M is a trademark of 3M Company.

|   |
|---|
| <p><b>3M Italia Srl</b><br/>Adesivi e Nastri per l'Industria<br/>Sistemi di Identificazione<br/>Via Norberto Bobbio, 21<br/>20096 PIOLTELLO MI<br/>TEL.02.70351</p> |
|---|