Polyester Label Material 76675

Product Data Sheet

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Product Description

3M™ Polyester Label Material 76675 is a 50 micron, gloss white printable polyester labelstock. The anti-static polyester liner provides easy processing and excellent lay-flat characteristics for sheet fed printing processes and resin doming applications. This product utilizes 3M™ Adhesive 350E, designed to provide excellent adhesion to high and low surface energy plastics, metals, painted metals and powder coatings.

Product Descriptor / Dispatch Labelling

76675 TT0 GW PET50-350E/46-100ASP

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	50 micron gloss white polyester
Adhesive	46 micron 350E acrylic
Liner	100 micron, 140 g/m² clear, anti-static polyester liner

Key Features

- The facestock is designed to accept inks used in standard printing methods including screen printing, flexography, letterpress and thermal transfer printing. The use of an anti-static polyester liner makes this product particularly suitable for sheet fed printing applications.
- The construction of the product makes it suitable for polyurethane resin doming applications. Doming can enhance the appearance of the label by creating a high gloss, three dimensional look.
- Polyester facestock offers good thermal stability and provides durability in harsh environments.
- 350E is 3M's most universal labelstock adhesive and offers excellent adhesion, even on low surface energy substrates, combined with excellent temperature and chemical resistance.
- 46 micron adhesive coat weight gives excellent adhesion to textured surfaces
- 100 micron anti-static polyester liner minimizes static effects to help prevent sheets sticking during feeding or stacking. The polyester liner provides a stable product with excellent lay-flat characteristics. The film liner also provides consistent die cutting and excellent high speed label application.
- Polyester liner eliminates the possibility of fibres associated with standard paper release liners, making the product more suitable for processes requiring high levels of cleanliness.

Application Ideas

- Warning, instruction, and service labels for durable goods.
- Property identification and asset labeling
- Domed labels for increased visual impact for application to items such as sporting goods or electrical appliances.
- Badge labels in automotive and electronic applications

Performance Characteristics

Not for specification purposes

Standard Test Conditions are 23ºC and 50% Relative Humidity

180º Peel Adhesion tested using FINAT Test Procedure FTM 1 (300mm/min)
90ºPeel Adhesion tested using FINAT Test Procedure FTM 2 (300mm/min)

Adhesion	20 Minutes at Standard Conditions		72 Hours at Standard Conditions	
	180º Peel N/25mm	**90º Peel** N/25mm	**180º Peel** N/25mm	**90º Peel** N/25mm
Stainless Steel	18.9	17.8	26.9	24.3
ABS	17.2	15.8	22.8	18.1
Polycarbonate	18.2	17.3	23.7	18.5
Polypropylene	18.7	16.7	20.7	18.2

Adhesion	72 Hours at 70ºC		72 Hours at - 40ºC	
	180º Peel N/25mm	**90º Peel** N/25mm	**180º Peel** N/25mm	**90º Peel** N/25mm
Stainless Steel	26.4	25.9	25.4	25.8
ABS	20.8	14.8	21.0	21.9
Polycarbonate	21.6	20.1	22.2	20.8
Polypropylene	15.4	11.8	20.4	20.0

Adhesion	72 Hours at 40ºC and 95% RH	
	180º Peel N/25mm	**90º Peel** N/25mm
Stainless Steel	26.0	27.6
ABS	18.8	20.9
Polycarbonate	18.9	15.6
Polypropylene	20.5	20.3

Liner Release tested using FINAT Test Procedures
FTM 3 (180º removal of liner from face material at 300mm/min)
FTM 4 (180º removal of liner from face material at 10m/min)

Liner Release	Rate of Removal	Release Force	Units
FTM 3	300 mm per min	12.3	cN/50mm
FTM 4	10 m per min	15.4	cN/25mm

Temperature resistance of label applied to stainless steel.
Other substrates should be tested as per application

Service Temperature	-40 to 150ºC
Minimum Application Temperature	5ºC

Processing	**Printing:** The use of the 100 micron anti-static polyester liner makes this product particularly suitable for sheet-fed printing applications. The facestock itself is designed to accept print from most standard printing methods including screen-printing, flexography and letterpress. Variable information may be applied by thermal transfer printing. The compatibility of ink systems and printing methods should be verified by testing in the actual process. **Die Cutting:** Material may be die cut using flat-bed or rotary dies. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing. **Packaging:** Finished labels should be stored in plastic 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 at standard room temperature conditions of 21ºC and 50% relative humidity.
Shelf Life	24 months from date of dispatch by 3M when stored in the original packaging at 21℃ & 50 % relative humidity
For Additional Information	To request additional product information or to arrange for sales assistance, call…… Address correspondence to: 3M
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.
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