



Thick Polyester Label Material 76622

Product Data Sheet

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Supersedes : New

Product Description

3M™ Thick Polyester Label Material 76622 is a 125 micron, white polyester labelstock with a matt print receptive topcoat, and is designed for durable labelling applications where a thicker, more rigid material would improve label handling.

Short Description / Dispatch Labelling

76622 TT5 MW PET125-350E/46-90WGH

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	130 micron matt white topcoated polyester
Adhesive	46 micron 350E acrylic
Liner	80 micron, 92 g/m ² White Densified Glassine

Key Features

- TT5 topcoat provides a smooth matt surface, enabling excellent thermal transfer images at reduced burn temperature settings. The topcoat also provides improved ink anchorage for traditional forms of press printing
- Good print definition is combined with the advantages of chemical and abrasion resistance associated with a matt coating.
- Polyester facestock provides durability in harsh environments. Ease of handling is increased due to rigidity of 125 micron film.
- 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
- 90gsm densified glassine liner for consistent die cutting

Application Ideas

- Barcode labels and rating plates.
- Industrial labelling of electrical appliances and automotive parts
- Nameplates for durable, electronic and sporting goods.
- DIY and horticultural applications
- Sporting or leisure applications

Performance Characteristics

Not for specification purposes

Standard Test Conditions are 23°C and 50% Relative Humidity

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

Adhesion	20 Minutes at Standard Conditions		72 Hours at Standard Conditions	
	180° Peel N/25mm	90° Peel N/25mm	180° Peel N/25mm	90° Peel N/25mm
Stainless Steel	24.7	20.3	31.2	23.5
ABS	21.2	15.7	27.5	17.0
Polycarbonate	22.6	17.4	27.8	20.1
Polypropylene	22.3	16.0	27.5	15.9

Adhesion	72 Hours at 70°C		72 Hours at - 40°C	
	180° Peel N/25mm	90° Peel N/25mm	180° Peel N/25mm	90° Peel N/25mm
Stainless Steel	31.3	26.3	27.1	23.6
ABS	28.8	17.9	24.5	15.5
Polycarbonate	29.4	17.8	27.3	19.0
Polypropylene	23.9	14.2	26.8	16.0

Adhesion	72 Hours at 40°C and 95% RH	
	180° Peel N/25mm	90° Peel N/25mm
Stainless Steel	31.8	27.3
ABS	18.9	13.8
Polycarbonate	18.8	14.9
Polypropylene	25.4	16.0

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

Liner Release	Rate of Removal	Release Force	Units
FTM 3	300 mm per min	142	cN/50mm
FTM 4	10 m per min	42	cN/25mm

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

Service Temperature	-40 to 150°C
Minimum Application Temperature	5°C

Processing	<p>Printing: Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. Resin ribbons are recommended for optimum durability. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing</p> <p>Die Cutting: Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.</p> <p>Packaging: Finished labels should be stored in plastic bags.</p>
Special Considerations	<p>For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent.</p> <p>NOTE: When using solvents, read and follow the manufacturer's precautions and directions for use.</p> <p>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.</p>
Storage	Store at standard room temperature conditions of 21°C and 50% relative humidity.
Shelf Life	24 months from date of dispatch by 3M when stored in the original packaging at 21°C & 50 % relative humidity
For Additional Information	To request additional product information or to arrange for sales assistance, please see below for contact details.
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

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