



Polyester Label Material G61SB

Product Data Sheet

Issued : June 2010
Supersedes : February 2007

Product Description

3M™ Polyester Label Material G61SB is a 50 micron, white polyester labelstock with matt print receptive topcoat and is designed for general industrial applications. This product utilizes 3M™ Adhesive 250E, offering high adhesive strength on a variety of surfaces including high surface energy (HSE) plastics and metals.

Product Descriptor / Dispatch Labelling

G61SB Matt White PET50-250E-65WG

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	55 micron matt white topcoated polyester
Adhesive	20 micron 250E acrylic
Liner	56 micron, 62 g/m ² white densified glassine

Key Features

- Smooth matt topcoat, enabling excellent thermal transfer images at lower printer temperature settings. The topcoat also provides improved ink anchorage for traditional forms of press printing
- Polyester facestock offers good thermal stability and provides durability in harsh environments.
- Adhesive provides high ultimate adhesion on a variety of substrates, and offers good chemical and UV resistance.
- Densified glassine liner for consistent die cutting.
- UL and cUL recognized (File Number MH18072)

Application Ideas

- Barcode labels and rating plates
- Property identification and asset labeling
- Warning, instruction, and service labels for durable goods.

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	14.6	11.6	19.3	14.1
ABS	14.8	11.8	17.9	14.2
Polycarbonate	15.5	11.6	18.7	14.5
Polypropylene	13.4	5.3	12.4	4.2

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	21.9	17.1	17.5	15.2
ABS	19.5	15.6	16.5	15.6
Polycarbonate	20.6	17.8	17.2	15.8
Polypropylene	11.4	7.5	14.3	9.1

Adhesion	72 Hours at 40°C and 95% RH	
	180° Peel N/25mm	90° Peel N/25mm
Stainless Steel	22.0	16.5
ABS	22.9	13.3
Polycarbonate	23.3	15.8
Polypropylene	13.3	8.0

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	13.9	cN/50mm
FTM 4	10 m per min	5.8	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

Printing:

The facestock 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. Resin ribbons are recommended for optimum durability. The compatibility of ink systems and printing methods should be verified by testing in the actual process.

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.

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 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, call 0870 6080050 Address correspondence to: 3M United Kingdom PLC, 3M House, 28 Great Jackson Street, Manchester, M15 4PA

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.

3M United Kingdom PLC 3M House, 28 Great Jackson Street, Manchester, M15 4PA	Product Information : Tel 0870 60 800 50 Fax 0870 60 700 99	3M Ireland Limited The Iveagh Building The Park, Carrickmines Dublin 18, Ireland	Customer Service : Tel (01) 280 3555 Fax (01) 280 3509
--	---	--	--