3M™ Polyester Label Material G62UB

Product Data Sheet

November 2011
Supersedes : September 2011

Product Description

3M Polyester Label Material G62UB is a 50 micron, silver 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

G62UB TT5 MS PET50-250E/32-65WG

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	55 micron matt silver topcoated polyester
Adhesive	32 micron 250E acrylic
Liner	56 micron, 62 g/m² 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 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 23ºC and 50% Relative Humidity
180º Peel Adhesion tested using FINAT Test Procedure FTM 1 (300mm/min)
90º Peel 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	18.0	15.4	20.5	17.3
ABS	16.2	12.9	23.5	16.8
Polycarbonate	16.8	14.2	23.0	16.6
Polypropylene	14.5	6.0	15.9	7.6

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	25.5	20.5	21.3	17.2
ABS	26.5	18.2	21.8	16.8
Polycarbonate	23.1	19.9	21.7	16.5
Polypropylene	11.1	7.8	9.7	7.3

Adhesion	72 Hours at 40ºC and 95% RH	
	180º Peel N/25mm	**90º Peel** N/25mm
Stainless Steel	26.7	19.5
ABS	23.4	16.8
Polycarbonate	18.2	10.1
Polypropylene	11.5	5.3

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	17.4	cN/50mm
FTM 4	10 m per min	9.0	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 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 21ºC 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	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.
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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