3M™ Polyester Label Material 92350

Preliminary Product Data Sheet

April 2013
Supersedes : March 2012

Product Description

3M Polyester Label Material 92350 is a 50 micron, silver polyester labelstock with a matt print receptive topcoat, and is designed for thermal transfer printing. This product utilizes 3M™ Adhesive SE100 designed for application onto textured, grained and structured low surface energy plastics such as Polypropylene (PP), low density Polyethylene (LDPE), mineral filled and fibre reinforced PP and Polyamide (PA) composites.

Product Descriptor / Dispatch Labelling

92350 MS PET50 - SE100/65 - 65DWG

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	56 micron matt silver topcoated polyester
Adhesive	65 g/m^2 SE100 adhesive
Liner	56 micron, 62 g/m^2 white densified double-sided glassine

Key Features

- TT3 topcoat offers high abrasion resistance combined with excellent resistance of the thermal transfer image when exposed to aggressive chemicals such as brake fluid.
- Polyester facestock offers good thermal stability and provides durability in harsh environments.
- 3M™ Adhesive SE100 gives high adhesion to very low surface energy materials
- 65 g/m^2 adhesive coatweight for excellent adhesion to rough and textured surfaces.
- Densified double-sided glassine liner for consistent die cutting. The double-side liner improves ease of dispensing.
- UL and cUL recognized (File Number MH18072)

Application Ideas

- Barcode labels and rating plates
- Property identification and asset labelling in harsh environments
- 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)
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	22.2	21.7	31.7	22.5
ABS	20.8	23	24.7	22.5
Polycarbonate	24	21.5	26.4	24.8
Polypropylene	20.9	23.2	23.4	23.0

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	30.2	22.1	27.1	21
ABS	22.9	17.3	25.3	21.7
Polycarbonate	24.2	6	27.9	22.5
Polypropylene	24.7	27.3	23.4	20.5

Adhesion	72 Hours at 40ºC and 95% RH	
	180º Peel N/25mm	90º Peel N/25mm
Stainless Steel	29.7	20.7
ABS	25.7	21.5
Polycarbonate	22.2	22
Polypropylene	24.8	21.8

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	31.3	cN/50mm
FTM 4	10 m per min	13.6	cN/25mm

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

Service Temperature	-40 to 130ºC
Minimum Application Temperature	+15ºC

Processing

Printing:

Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. Thermal transfer printing with resin ribbons is 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. Flat bed die cutting is not recommended and must be evaluated before use. **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	At least 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…… 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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