



Polyester Label Material D84YH

Product Data Sheet

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Product Description

3M™ Polyester Label Material D84YH is a 50 micron, platinum silver printable polyester labelstock 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

D84YH Platinum Silver PET50-250E-90WG

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	50 micron platinum silver polyester
Adhesive	20 micron 250E acrylic
Liner	77 micron, 90 g/m ² White Densified Glassine

Key Features

- The facestock is designed to accept inks used in standard printing methods including screen printing, flexography and letterpress. Variable information may be applied by thermal transfer 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 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	16.9	12.8	18.8	15.1
ABS	16.9	11.8	18.5	13.5
Polycarbonate	16.9	12.6	19.2	14.0
Polypropylene	12.7	8.6	15.3	8.7

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	21.4	16.5	18.1	14.6
ABS	21.2	10.6	17.6	13.3
Polycarbonate	21.2	17.8	19.0	14.2
Polypropylene	12.0	6.5	14.3	11.1

Adhesion	72 Hours at 40°C and 95% RH	
	180° Peel N/25mm	90° Peel N/25mm
Stainless Steel	20.9	17.5
ABS	13.8	8.2
Polycarbonate	12.6	11.7
Polypropylene	12.5	8.3

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..... Address correspondence to: 3M
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Values presented have been determined by standard test methods and are average values not to be used for specification purposes.
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