



# Polyester Label Material D85YB

## Product Data Sheet

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### Product Description

3M™ Polyester Label Material D85YB is a 50 micron, gloss white 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

D85YB Pearl White PET50-250E-65WG

### Physical Properties

Not for specification purposes  
(Calipers are nominal values)

<b>Facestock</b>	50 micron gloss white polyester
<b>Adhesive</b>	20 micron 250E acrylic
<b>Liner</b>	56 micron, 62 g/m <sup>2</sup> 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
<b>Stainless Steel</b>	14.6	11.6	19.3	14.1
<b>ABS</b>	14.8	11.8	17.9	14.2
<b>Polycarbonate</b>	15.5	11.6	18.7	14.5
<b>Polypropylene</b>	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
<b>Stainless Steel</b>	21.9	17.1	17.5	15.2
<b>ABS</b>	19.5	15.6	16.5	15.6
<b>Polycarbonate</b>	20.6	17.8	17.2	15.8
<b>Polypropylene</b>	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
<b>Stainless Steel</b>	22.0	16.5
<b>ABS</b>	22.9	13.3
<b>Polycarbonate</b>	23.3	15.8
<b>Polypropylene</b>	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

<b>Service Temperature</b>	-40 to 150°C
<b>Minimum Application Temperature</b>	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.

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	<b>Packaging:</b> Finished labels should be stored in plastic bags.
<b>Special Considerations</b>	For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent.  <b>NOTE:</b> 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.
<b>Storage</b>	Store at standard room temperature conditions of 21°C and 50% relative humidity.
<b>Shelf Life</b>	24 months from date of dispatch by 3M when stored in the original packaging at 21°C & 50 % relative humidity
<b>For Additional Information</b>	To request additional product information or to arrange for sales assistance, call: 08-92 22 50 Address correspondence to: 3M Svenska AB, Industri, 191 89 Sollentuna
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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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