



Durable Print Solutions

PT700 White Polyester

Technical data

June, 2009

Product Description

Rebo Polyester Label Material 7871EJ is a 50 micron, gloss white polyester labelstock designed for thermal transfer printing. This product utilizes Rebo Adhesive 350E, designed to provide excellent adhesion to high and low surface energy plastics, metals, painted metals and powder coatings.

Product Descriptor / Dispatch Labelling

PT700 TT2 GW PET50-350E/46-90DWG

Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Facestock	50 micron gloss white polyester
Adhesive	46 micron 350E acrylic
Liner	77 micron, 90 g/m ² White Densified Double-sided Glassine

(Calipers are nominal values)

Key Features

- Facestock is topcoated for thermal transfer printing. Resin ribbons are recommended for optimum durability. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- Polyester facestock provides durability in harsh environments.
- 350E is Rebo's most universal labelstock adhesive and offers excellent adhesion, even on low surface energy substrates, combined with excellent temperature and chemical resistance.
- 46 micron adhesive coat weight gives excellent adhesion to 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 labeling in harsh environments
- Warning, instruction, and service labels for durable goods

Performance Characteristics

Note:

180° Peel Adhesion tested using FINAT Test Procedure FTM 1 (300mm/min)

90° Peel Adhesion tested using FINAT Test Procedure FTM 2 (300mm/min)

Standard Test Conditions are 23°C and 50% Relative Humidity.

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

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	18.9	17.8	26.9	24.3
ABS	17.2	15.8	22.8	18.1
Polycarbonate	18.2	17.3	23.7	18.5
Polypropylene	18.7	16.7	20.7	18.2

Note:

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	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	26.4	25.9	25.4	25.8
ABS	20.8	14.8	21.0	21.9
Polycarbonate	21.6	20.1	22.2	20.8
Polypropylene	15.4	11.8	20.4	20.0

Note:

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	72 Hours at 40°C and 95% RH	
	180° Peel N/25mm	90° Peel N/25mm
Stainless steel	26.0	27.6
ABS	18.8	20.9
Polycarbonate	18.9	15.6
Polypropylene	20.5	20.3

Note:

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
FTM3	300mm per min	18.9	cN/50nm
FTM4	10m per min	9.0	cN/25nm

Note:

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

Service Temperature	-40°C to 150°C
Minimum Application Temperature	5°

Processing

Printing: Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. Thermal transfer printing is recommended with resin ribbons is recommended for optimum durability. The topcoat provides improved ink anchorage or standard roll-processing methods including flexography, letterpress, and screen-printing.

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	At least 24 months from date of dispatch by Rebo 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 +31 (0)35 - 601 69 41 or send an email to info@rebosystems.com
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Rebo B.V.

Beckerijngstraat 21
P.O. box 125 | 3760 AC Soest
The Netherlands

T. +31 (0)35 - 601 69 41
www.rebosystems.com