



Durable Print Solutions

PT300 Matt Polyester

Technical data

November, 2016

Product Description

Rebo Polyester Label Material PT300 is a 75 micron, silver polyester labelstock with a matt print receptive topcoat. This product utilizes Rebo Adhesive 310E, a firm adhesive which resists oozing and provides high strength on a variety of surfaces including high surface energy (HSE) plastics and metals.

Product Descriptor / Dispatch Labelling

PT300 TT5 MS PET75-310E-90WG

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	80 micron matt silver topcoated polyester
Adhesive	20 micron 310E acrylic
Liner	77 micron, 90 g/m ² White Densified Glassine

(Calipers are nominal values)

Key Features

- TT5 topcoat provides a smooth matt surface, enabling excellent thermal transfer images at reduced burn temperature settings. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- Good print definition is combined with the advantages of chemical and abrasion resistance associated with a matt coating.
- Polyester facestock 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 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: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

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

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	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	13.4	8.6	18.0	12.1
ABS	12.2	8.4	18.1	10.6
Polycarbonate	16.8	8.8	20.4	13.4
Polypropylene	8.6	3.8	11.1	5.2

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	27.7	19.1	23.0	13.3
ABS	21.1	15.1	21.0	11.9
Polycarbonate	21.7	16.4	20.9	11.6
Polypropylene	5.9	4.2	11.4	6.6

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	23.7	17.4
ABS	21.4	6.0
Polycarbonate	22.2	3.9
Polypropylene	10.9	4.1

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	15.5	cN/50nm
FTM4	10m per min	5.7	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. Resin ribbons are recommended for optimum durability. It is printable by standard roll processing methods including flexography, hot stamp, 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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