



Acetone Resistant Label Material 92048, 92049, 92062, 92064, 92070

Product Data Sheet

Date: May 2016
Supersedes: November 2015

Product	92048 DP MS PET50-350E/65-90DWG 92049 DP MW PET50-350E/65-65DWG 92062 DP MW PET50-350E/46-65DWG 92064 DP MS PET50-350E/46-65DWG 92070 DP MC PET50-350E/46-65DWG
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Product Description

3M™ Acetone Resistant Polyester Label Materials are 50 micron, thermal transfer printable label-stocks that offer good resistance to solvents such as acetone. These products use 3M™ Adhesive 350E, designed to provide good adhesion to high and low surface energy plastics, metals, painted metals and powder coatings.

Physical Properties

(Calipers are nominal values)

Facestock	50 micron top-coated polyester	
Adhesive	92062, 92064, 92070	36 micron 350E acrylic
	92048, 92049	59 micron 350E acrylic
Liner	92049, 92062, 92064 92070	white densified double-sided glassine 46 micron, 63 g/m ²
	92048	white densified double-sided glassine 70 micron, 92 g/m ²

Key Features

- Topcoat provides good resistance of the thermal transfer image to organic solvents such as acetone and MEK. Optimum durability may be achieved when printing with Ricoh B110CU or 3M™ 92904 thermal transfer ribbons.
- 350E is 3M's most universal label-stock adhesive and offers good adhesion, even on low surface energy substrates, combined with good temperature and chemical resistance.
- Adhesive coat weight gives good adhesion to textured surfaces
- Densified double-sided glassine liner for consistent die cutting. The double-side liner improves ease of dispensing.

Application Ideas

- Applications where variable information is printed at the point of application, and where labels may be exposed to organic solvents during chemical cleaning or degreasing.
- Automotive, electronics and chemical drum labelling applications.

Performance Characteristics

Resistance of print	(CSA Standard CSA C22.2 No. 0.15-01 Adhesive Labels Clause 6.4, Legibility after Fluid Abrasion) Total load 1000 g, Number of cycles: 100 Samples printed with Ricoh B110CU thermal transfer ribbon. Legibility assessed after testing with the following agents:	
	Acetone	Print remains legible
	MEK	Print remains legible
	Toluene	Print remains legible

Temperature resistance of label applied to stainless steel.

Other substrates must be tested as per application

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

Adhesion according to FINAT FTM1 (300mm/Min, 180°), N/25 mm.

Product	Substrate	20 Min. @ 23°C	72 h @ 23°C	72 h @ 70°C
92048	Stainless steel	24	26	26
92049	ABS	23	24	23
	Polycarbonate	24	24	17
	Polypropylene	22	22	21
92062	Stainless steel	20	24	26
92064	ABS	21	23	21
92070	Polycarbonate	21	23	18
	Polypropylene	20	21	18

Product	Substrate	72 h @ -40°C	7 days @ 40°C, 100% RH
92048	Stainless steel	24	20
92049	ABS	24	22
	Polycarbonate	24	18
	Polypropylene	22	21
92062	Stainless steel	24	25
92064	ABS	23	22
92070	Polycarbonate	23	18
	Polypropylene	20	21

Processing**Printing:**

The face-stock is designed for thermal transfer printing. Optimum durability may be achieved when printing with Ricoh B110CU thermal transfer ribbon. The compatibility of other ink systems and printing methods should be verified by testing in the actual process.

Die Cutting:

Rotary die cutting is recommended. Fan-folding of labels is not recommended. Small labels should be evaluated carefully. Winding tension should be kept at a minimum to help prevent adhesive 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 & Shelf Life

Store at 15°C - 25°C and 40 - 60% relative humidity . The product can be stored up to 24 months from date of manufacturing.

Important Notice

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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.

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