



76962 AR MW PET50-350E/46-65DWG

Durable Polyester Label Material

Provisional Data Sheet

Issued	:	March 2007 (Provisional)
Supersedes	:	-

Physical Properties

Not for specification purposes
(Callipers are nominal values)

Facestock	50 micron Matt White Topcoated Polyester
Adhesive	46 micron 350E Acrylic
Liner	56 micron, 62 g/m ² White Densified Double-sided Glassine
Shelf Life	12 months from date of manufacture of product when properly stored at 22°C and 50% relative humidity.

Features:

- Facestock is topcoated with a print receptive coating.
- The key feature of this label material is that it can be used for chemically resistant labels. Excellent resistance to organic solvents such as Acetone, MEK and Toluene can be achieved using Ricoh B110CU ribbon.
- Compatible with most traditional press print methods
- 350E 3M's most universal labelstock adhesive, excellent adhesion, even on Low Surface Energy substrates combined with excellent temperature and chemical resistance
- 46 micron adhesive coat weight for excellent adhesion to textured surfaces and surfaces with slight oil contamination
- 62 g/m² densified double-side glassine liner assures consistent die cutting. The double-side liner improves ease of dispensing.

Application Ideas:

- Chemical resistance to organic solvents (e.g. Acetone) for point of application variable printing
 - Automotive, Electronics (e.g. chemical cleaning, degreasing) and Chemical labelling.
-

Performance Characteristics
 Not for specification purposes

Adhesion	90°Peel Adhesion, Test procedure FTM 2			
	Initial (20 Minute Dwell/RT)		Ultimate Adhesion 72 Hours Dwell at 23	
	N/10mm	Oz/In	N/10mm	Oz/In
Aluminium	6.9	62	9.4	85
Stainless Steel	7.4	67	11.0	99
Phenolic	6.8	61	8.5	77
ABS	6.9	62	8.9	80
Polycarbonate	7.1	64	8.2	74
Polystyrene	6.9	62	7.5	68
Polypropylene	5.4	49	7.3	66
HD Polyethylene	4.1	37	5.1	46
LD Polyethylene	5.4	49	5.8	52
Powder Coating	6.3	57	9.2	83

Adhesion	90°Peel Adhesion, Test procedure FTM 2	
	Conditioned for 3 Days at - 40°C	
	N/10mm	Oz/In
Aluminium	6.3	57
Stainless Steel	8.0	72
Phenolic	6.8	61
ABS	7.5	68
Polycarbonate	7.4	67
Polystyrene	7.5	68
Polypropylene	6.4	58
HD Polyethylene	4.0	36
LD Polyethylene	5.1	46
Powder Coating	7.7	69

**Performance
 Characteristics Contd.**

Temperature Resistance	Service Temperature	-40°C to 150°C
-------------------------------	---------------------	----------------

Chemical Resistance	The properties defined are based on samples printed on a Zebra 140XIII with Ricoh B110CU ribbon at 4"/sec and the minimum Burn Temperature. Printed area was rubbed 100 times with a cloth soaked in the test solvent using approximately 300g of pressure. Any damage to print was noted.
Chemical	Effect on Print
Acetone	Print has faded slightly but is still legible
MEK	Print has faded slightly but is still legible
Toluene	Print has faded slightly but is still legible
Isopropanol	Print has faded slightly but is still legible
Heptane	Print has faded slightly but is still legible
Screen Wash	Print has faded slightly but is still legible
Anti-Freeze	Print has faded slightly but is still legible
Unleaded Petrol	Print has faded but is still legible
Diesel	Print has faded slightly but is still legible
15w40 Engine Oil	Print has faded slightly but is still legible
DOT4 Brake Fluid	Print has faded slightly but is still legible

Processing

Printing:

Ricoh B110CU thermal transfer ribbon is recommended to obtain optimum durability properties.
Compatible with traditional press print methods, particular ink systems should always be assessed for their suitability

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. Please refer to Technical Service Bulletin Guide to converting 3M label Materials with 350E adhesive

Packaging:

Finished labels should be stored in plastic bags.

Special Considerations

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.

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.

3M is a trademark of the 3M Company.

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.

* Trademarks listed are the property of their respective owners



Tapes & Adhesives Group

© 3M United Kingdom PLC 2007

3M United Kingdom PLC
3M Centre, Cain Road,
Bracknell, Berkshire,
RG12 8HT

Product Information :
Tel 0870 60 800 50
Fax 0870 60 700 99

3M Ireland
3M House, Adelphi Centre,
Upper Georges Street,
Dun Laoghaire, Co. Dublin,
Ireland

Customer Service :
Tel (01) 280 3555
Fax (01) 280 3509