



76710 3M TT0 GW PP60-350E/30-65WG

Thermal Transfer Polypropylene Label Material

Provisional Product Data Sheet

Issued	:	April 2003
Supersedes	:	None

Physical Properties

Not for specification purposes
(Callipers are nominal values)

Facestock	60 Micron Gloss White Polypropylene
Adhesive	30 micron #350 E Acrylic
Liner	56 micron, 62 g/m ² White Densified Glassine
Shelf Life	24 months from date of manufacture of product when properly stored between 22°C and 50% relative humidity.

Features:

- Facestock is suitable for thermal transfer printing. Resin ribbons are recommended for optimal durability. The face also provides improved ink anchorage for traditional forms of press printing.
- 350E 3M's most universal labelstock adhesive, excellent adhesion, even on Low Surface energy substrates combined with excellent temperature and chemical resistance.
- 62 g/m² densified glassine liner assures consistent die cutting.

Application Ideas:

- Barcode labels and rating plates.
- Carton labelling in high volume electronic applications
- Warning, instruction, and service labels for durable goods.
- Nameplates for durable, electronic and sporting goods.

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**Performance
 Characteristics**

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Adhesion	90°Peel Adhesion, Test procedure FTM 2			
	Initial (20 Minute Dwell/RT)		Ultimate Adhesion 72 Hours Dwell at 70°C	
	N/10mm	Oz/In	N/10mm	Oz/In
Aluminium	4.1	36	5.5	50
Stainless Steel	4.3	39	6.5	58
Phenolic	4.0	36	5.0	45
ABS	4.1	36	5.2	47
Polycarbonate	4.2	38	4.8	43
Polystyrene	4.1	36	4.4	40
Polypropylene	3.2	29	4.3	39
HD Polyethylene	2.4	22	3.0	27
LD Polyethylene	3.2	29	3.4	30
Powder Coating	3.4	33	5.4	49

Surface	Conditioned for 3 Days at - 40°C	
	90° Peel	
	N/10mm	Oz/In
Aluminium	3.7	33
Stainless Steel	4.7	42
Phenolic	4.0	36
ABS	4.4	40
Polycarbonate	4.3	39
Polystyrene	4.4	40
Polypropylene	3.8	34
HD Polyethylene	2.3	21
LD Polyethylene	3.0	27
Powder Coating	4.5	41

Temperature Resistance	70°C for 24 hours:	No significant visual change
	-40°C for 3 days:	No significant visual change
Humidity Resistance	24 hours at 38°C and 100% relative humidity	No significant changes in appearance or adhesion

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Processing

Printing:

Facestock is designed for thermal transfer printing. It is printable by all standard roll-processing methods including flexography, hot stamp, letterpress, and screen-printing. Corona Treatment prior to printing is recommended.

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. 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 10°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.

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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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