



Polypropylene Label Material 76711

Preliminary Product Data Sheet

November 2011
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Product Description

3M Polypropylene Label Material 76711 is a 60 micron, gloss white thermal transfer printable labelstock. This product utilizes 3M™ Adhesive 350E, designed to provide excellent adhesion to high and low surface energy plastics, metals, painted metals and powder coatings.

Product Descriptor / Dispatch Labelling

76711 3M TT0 GW PP60-350E/65-90DWG

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	60 micron gloss white topcoated polypropylene
Adhesive	65 micron 350E acrylic
Liner	77 micron, 90 g/m ² white densified double-sided glassine

Key Features

- Facestock has a print treatment designed to accept thermal transfer print. The print treatment also provides improved ink anchorage for traditional forms of press printing.
- 350E is 3M's most universal labelstock adhesive and offers excellent adhesion, even on low surface energy substrates, combined with excellent temperature and chemical resistance.
- 65 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 MH18072).

Application Ideas

- Barcode labels and rating plates
- Warning, instruction, and service labels for durable goods.

Performance Characteristics

Not for specification purposes

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

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	17.7	12.5	23.0	13.1
ABS	14.9	11.2	15.4	10.5
Polycarbonate	15.4	10.7	17.7	10.3
Polypropylene	15.5	8.3	17.7	8.8

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
FTM 3	300 mm per min	22.3	cN/50mm
FTM 4	10 m per min	16.4	cN/25mm

Temperature resistance of label applied to stainless steel.

Other substrates should be tested as per application

Service Temperature	-40 to 100°C
Minimum Application Temperature	5°C

Processing

Printing:

Facestock is treated for improved ink receptivity and is designed for thermal transfer printing. The facestock may be printed using standard roll-processing methods including flexography, letterpress, and screen-printing. The compatibility of ink systems and printing methods should be verified by testing in the actual process.

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	<p>For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent.</p> <p>NOTE: When using solvents, read and follow the manufacturer's precautions and directions for use.</p> <p>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.</p>
Storage	Store at standard room temperature conditions of 21°C and 50% relative humidity.
Shelf Life	24 months from date of dispatch by 3M 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..... Address correspondence to: 3M
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3M Italia Srl
Adesivi e Nastri per l'Industria
Sistemi di Identificazione
Via Norberto Bobbio, 21
20096 PIOLTELLO MI
TEL.02.70351