

Label Material 57830

layflat.

Laser Toner Printable Polypropylene Label Material

Technical Data Sho	eet		1	Temporary
Product Description	polypropylene labe	ner Printable Polypro el stocks. These label p ety of surfaces includir	products can resist oozi	ing and provide high
Construction	(Calipers are nominal values.)			
	Product	Facestock	Adhesive	Liner
	3M label material	2.8 mil (70 micron) Matte white polypropylene	0.8 mil (20 micron) Acrylic	3.1mil White Glassine liner
Features	• Topcoated polypropylene provides excellent toner anchorage for laser toner printing and pen writing. The matte coating resists degradation from scuffing, chemicals, moisture, and wide temperature fluctuations. The topcoat also provides improved ink anchorage for traditional forms of press printing.			
	improved ink anchorage for traditional forms of press printing.Adhesive is a firm adhesive which resists oozing and provides high strength on a			

variety of surfaces including high surface energy (HSE) plastics and metals.

ullet 3M $^{\text{TM}}$ label material 90gsm Glassine liner assures consistent die cutting and good

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Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion: 180° peel test procedure is ASTM D 3330.

	Initial Peel Strength (10 Minute Dwell/RT)		
Surface	Oz./In.	N/ mm	
Stainless Steel	59	0.65	
Glass	64	0.70	
Polypropylene	44	0.48	
Polycarbonate	52	0.57	
ABS	49	0.54	
HDPE	35	0.38	

	Conditioned for 24hr at Room Temperature 72°F (22°C)	
Surface	Oz./In.	N/ mm
Stainless Steel	61	0.66
Glass	68	0.74
Polypropylene	46	0.50
Polycarbonate	58	0.63
ABS	58	0.63
HDPE	36	0.39

	Conditioned for 3 Days at 120°F (49°C)	
Surface	Oz./In.	N/ mm
Stainless Steel	71	0.75
Glass	69	0.75
Polypropylene	36	0.40
Polycarbonate	60	0.65
ABS	54	0.59
HDPE	34	0.35

Liner Release: 180° Removal of Liner from Facestock

Product	Rate of Removal	Gram/Inch Width	N/100 mm
3M™ Laser Toner Printable	90 inches/minute	13.6	0.52
Polypropylene Label Material	300 inches/minute	16.5	0.64

Environmental

Performance

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

The properties defined are based on four hour immersions at room temperature (72°F/22°C) unless otherwise noted. Samples were applied to stainless steel panels 24 hours prior to immersion and were evaluated one hour after removal from the solution for peel adhesion. Adhesion measured at 180° peel angle (ASTM D 3330) at 12 inches/minute.

Chemical Resistance:

	Appearance	Edge Penetration
Chemical	Visual	Millimeters
Isopropyl Alcohol	No change	1
Water for 48 hours	No change	0
pH 4	No change	0
pH 10	No change	0

Temperature Resistance: When applied to stainless steel. Other substrates should be tested per application.

5min	266°F (130°C): No significant visual change 284°F (140°C): No significant color change Slightly shrinkage, still functional 311°F (155°C): Slight discoloration	
1day	248°F (120°C): No significant visual change 302°F (150°C): Slight yellowing and shrinkage, still functional	
1month	194°F (90°C): No significant visual change 230°F (110°C): Slight yellowing and shrinkage, still functional	

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Application Techniques

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

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 50°F (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.

*When using solvents, read and follow the manufacturer's precautions and directions for use.

Processing

Printing:

Facestock is topcoated for improved ink receptivity and is suitable for laser toner printing and pen writable. It is printable by standard roll processing methods including flexography, letterpress, and screen printing.

Die Cutting:

Rotary die cutting is 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.

Storage

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Shelf Life

If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.

Product Use

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Industrial Tape and Adhesive Division

3M China Ltd. Shanghai, 200233 P. R. China 020-82250840

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