

3M 7880 Computer-Imprintable Polyester Label Material

Category : Polymer , Adhesive

Material Notes:

3M™ Dot Matrix Label Material 7880 is a 2.3 mil matte topcoated white polyester facestock with 0.8 mil acrylic adhesive 300 on a 55 lb densified kraft liner. Features: Unique Top Coat for traditional Dot Matrix printing, but delivers abrasion resistance in bar code applications. Quick Stick Adhesive has high tack and ultimate peel. 3M Performance Label offers wide range of products for long term durability and adhesion with automotive chemical resistance and outdoor durability. Some products are UL/CSA compliant materials that can be printed by Flexographic or Screen Print processes, as well as Thermal Transfer, Digital Printing, Inkjet, Laser or Dot Matrix Printing. Available with many facestocks such as Polyester, Polypropylene and Vinyl to Pharmaceutical papers or synthetics. Please refer to individual Product Datapage for specific product details. Think 3M First for Label Materials used in these Key Markets - Automotive, Electronics, Medical Device, Outdoor Power Equipment, Health Care, Security, Government, Personal Care, Recreational Vehicle, Aerospace, Transportation, Packaging, Foam Fabrication and General Industrial. Typical 3M Performance Label Applications include Bar Code Tracking, Track and Trace, Thermal Transfer Labels, Variable Information Printing (VIP), Brand and Instruction Labels, Warning Labels, Durable Decals, Surface Protection and Masking, Over Laminate, UV Protection, Tamper Indicating, Destructable Labels, Void Message, Fraud Reduction, Laminating, Bonding and Digital Window Graphics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7880-Computer-Imprintable-Polyester-Label-Material.php

Physical Properties	Metric	English	Comments
Thickness	20.3 microns	0.800 mil	Adhesive
	58.4 microns	2.30 mil	Facestock
	81.3 microns	3.20 mil	Liner

Mechanical Properties	Metric	English	Comments
Peel Strength	0.09861 kN/m	0.5625 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.110 kN/m	0.625 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.18626 kN/m	1.0625 pli	Polycarbonate 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.27391 kN/m	1.5625 pli	LD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.307 kN/m	1.75 pli	HD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.307 kN/m	1.75 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
			HD Polyethylene, 90° Peel,

Mechanical Properties	0.31773 kN/m Metric	1.8125 pli English	Conditioned for 3 days at 49°C; ASTM D3330 Comments
	0.3287 kN/m	1.875 pli	Polycarbonate 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.3287 kN/m	1.875 pli	LD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.351 kN/m	2.00 pli	LD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.351 kN/m	2.00 pli	HD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.3725 kN/m	2.125 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.38347 kN/m	2.1875 pli	HD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.394 kN/m	2.25 pli	LD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.394 kN/m	2.25 pli	Polycarbonate 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.4163 kN/m	2.375 pli	Polypropylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4163 kN/m	2.375 pli	Polypropylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.438 kN/m	2.50 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.438 kN/m	2.50 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Stainless Steel, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Glass, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Polypropylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.482 kN/m	2.75 pli	Polycarbonate 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.482 kN/m	2.75 pli	Polypropylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330

Mechanical Properties	Metric kN/m	English	Comments
			Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.49303 kN/m	2.8125 pli	HD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.5040 kN/m	2.875 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.5040 kN/m	2.875 pli	Polycarbonate 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.526 kN/m	3.00 pli	Glass, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.5478 kN/m	3.125 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.5478 kN/m	3.125 pli	Glass, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.58068 kN/m	3.3125 pli	Polypropylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.58068 kN/m	3.3125 pli	Stainless Steel, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.5916 kN/m	3.375 pli	Polypropylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.60259 kN/m	3.4375 pli	Polycarbonate 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.614 kN/m	3.50 pli	Stainless Steel, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.614 kN/m	3.50 pli	Polypropylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.64642 kN/m	3.6875 pli	Polycarbonate 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.657 kN/m	3.75 pli	Glass, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.66833 kN/m	3.8125 pli	Polycarbonate 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.7231 kN/m	4.125 pli	Polypropylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.73407 kN/m	4.1875 pli	Glass, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.73407 kN/m	4.1875 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.745 kN/m	4.25 pli	Stainless Steel, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330

Mechanical Properties	Metric	English	Comments
	0.7669 kN/m	4.375 pli	Stainless Steel, 180° Peel Conditioned for 3 days at 49°C; ASTM D3330
	0.7669 kN/m	4.375 pli	Glass, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.77789 kN/m	4.4375 pli	Glass, 180° Peel, Conditioned for 3 days at RT; ASTM D3330

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Adhesive Carrier	55# Densified kraft	
Adhesive Type	#300 Acrylic	

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