

3M 7983 Sheet Polyester Label Material

Category : Polymer

Material Notes:

Features: Matte coating is compatible with screen printing and resists degradation from scuffing, chemicals, moisture, and wide temperature fluctuations. Variable information can be added by the end user, as the material is dot matrix printable and hand writeable. #300 adhesive bonds well to a variety of substrates including metals, high surface energy (HSE) plastics, and low surface energy (LSE) plastics. It is ideal for applications requiring high initial adhesion to LSE plastic surfaces. 90# lay-flat polycoated kraft liner provides easy sheet processing. 3M™ Label Material 7983 is UL recognized (File MH11410) and CSA accepted (File 99316). See the UL and CSA listings for details. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7983-Sheet-Polyester-Label-Material.php

Physical Properties	Metric	English	Comments
Thickness	20.3 microns	0.800 mil	Adhesive
	83.8 microns	3.30 mil	Facestock
	170 microns	6.70 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
	0.31773 kN/m	1.8125 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	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

Mechanical Properties	Metric	English	Comments
	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
	0.4163 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
	0.482 kN/m	2.75 pli	Glass, 90° 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

Mechanical Properties	0.526 kN/m Metric	3.00 pli English	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
	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
	633.9 kN/m	3616 pli	Polycarbonate 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM

Mechanical Properties	Metric	English	03330 Comments
Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Adhesive Type	#300 Acrylic	
Liner	90# Densified kraft	

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