

## 3M 7904 Screen Printable Sheet Vinyl Label Material

Category : Polymer , Adhesive

### Material Notes:

3M™ Screen Printable Sheet Vinyl Label Material 7904 is a durable, high performance material that offers excellent conformability, good durability and moisture resistance. This label material utilizes 3M™ Adhesive 350, which is designed to permanently bond to high and low surface energy plastics, textured and contoured surfaces, powder coatings, and slightly oily metals. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-7904-Screen-Printable-Sheet-Vinyl-Label-Material.php](http://www.lookpolymers.com/polymer_3M-7904-Screen-Printable-Sheet-Vinyl-Label-Material.php)

Physical Properties	Metric	English	Comments
Thickness	45.7 microns	1.80 mil	Adhesive
	86.4 microns	3.40 mil	Facestock
	170 microns	6.70 mil	Liner

Mechanical Properties	Metric	English	Comments
Peel Strength	0.0877 kN/m	0.500 pli	Glass, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.219 kN/m	1.25 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.219 kN/m	1.25 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.2410 kN/m	1.375 pli	Polycarbonate 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.2849 kN/m	1.625 pli	Polycarbonate 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.29582 kN/m	1.6875 pli	Finely Textured Powder Coating, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.307 kN/m	1.75 pli	Finely Textured Powder Coating, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.307 kN/m	1.75 pli	Finely Textured Powder Coating, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.3287 kN/m	1.875 pli	Finely Textured Powder Coating, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.351 kN/m	2.00 pli	LD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330

Mechanical Properties	0.38347 kN/m Metric	2.1875 pli English	Conditioned for 3 days at RT; ASTM D3330 Comments
	0.40538 kN/m	2.3125 pli	Glass, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.40538 kN/m	2.3125 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.4163 kN/m	2.375 pli	Finely Textured Powder Coating, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.4163 kN/m	2.375 pli	LD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.438 kN/m	2.50 pli	HD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.44921 kN/m	2.5625 pli	Finely Textured Powder Coating, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	LD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Finely Textured Powder Coating, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4602 kN/m	2.625 pli	Smooth Powder Coating, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.47112 kN/m	2.6875 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.47112 kN/m	2.6875 pli	Polypropylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.482 kN/m	2.75 pli	Finely Textured Powder Coating, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.482 kN/m	2.75 pli	Polypropylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.482 kN/m	2.75 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.49303 kN/m	2.8125 pli	Smooth Powder Coating, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.49303 kN/m	2.8125 pli	Glass, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.5040 kN/m	2.875 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.526 kN/m	3.00 pli	Aluminum, 90° Peel, Initial, 10 min

Mechanical Properties	Metric	English	Comments
	0.53686 kN/m	3.0625 pli	dwelt at RT; ASTM D3330 Smooth Powder Coating, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.53686 kN/m	3.0625 pli	HD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.5478 kN/m	3.125 pli	Stainless Steel, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.5478 kN/m	3.125 pli	Aluminum, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.55877 kN/m	3.1875 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.570 kN/m	3.25 pli	Glass, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.570 kN/m	3.25 pli	LD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.58068 kN/m	3.3125 pli	Polypropylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.58068 kN/m	3.3125 pli	Smooth Powder Coating, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.60259 kN/m	3.4375 pli	Smooth Powder Coating, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.64642 kN/m	3.6875 pli	Polycarbonate 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.64642 kN/m	3.6875 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.64642 kN/m	3.6875 pli	Polypropylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.657 kN/m	3.75 pli	Polycarbonate 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.66833 kN/m	3.8125 pli	HD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.66833 kN/m	3.8125 pli	Polypropylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.69024 kN/m	3.9375 pli	Smooth Powder Coating, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.69024 kN/m	3.9375 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at RT; ASTM D3330

Mechanical Properties	Metric	English	Comments
	0.703 kN/m	4.00 pli	Polycarbonate 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.71216 kN/m	4.0625 pli	Glass, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.7231 kN/m	4.125 pli	Polypropylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.75598 kN/m	4.3125 pli	Aluminum, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.75598 kN/m	4.3125 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.75598 kN/m	4.3125 pli	Aluminum, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.77789 kN/m	4.4375 pli	HD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.789 kN/m	4.50 pli	Glass, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.79981 kN/m	4.5625 pli	Stainless Steel, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.8108 kN/m	4.625 pli	Stainless Steel, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.8108 kN/m	4.625 pli	Aluminum, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.8108 kN/m	4.625 pli	Aluminum, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.82172 kN/m	4.6875 pli	Smooth Powder Coating, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.833 kN/m	4.75 pli	Polypropylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.88746 kN/m	5.0625 pli	Smooth Powder Coating, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.8984 kN/m	5.125 pli	Polycarbonate 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.964 kN/m	5.50 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at RT; ASTM D3330

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