

3M 7776 Polypropylene Label Material

Category : Polymer , Adhesive

Material Notes:

3M™ Polypropylene Label Material 7776 is a durable polypropylene label stock that offers excellent performance in applications requiring surface conformability. This label product utilizes 3M™ Adhesive 310, which is a firm adhesive which resists oozing and provides high strength on a variety of surfaces including high surface energy (HSE) plastics and metals. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7776-Polypropylene-Label-Material.php

Physical Properties	Metric	English	Comments
Thickness	20.3 microns	0.800 mil	Adhesive
	66.0 microns	2.60 mil	Facestock
	81.3 microns	3.20 mil	Liner

Mechanical Properties	Metric	English	Comments
Peel Strength	0.07669 kN/m	0.4375 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.0877 kN/m	0.500 pli	LD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.0877 kN/m	0.500 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.09861 kN/m	0.5625 pli	HD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.1205 kN/m	0.6875 pli	Polypropylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.131 kN/m	0.750 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.131 kN/m	0.750 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.1424 kN/m	0.8125 pli	LD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.153 kN/m	0.875 pli	Polypropylene, 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.153 kN/m	0.875 pli	Polypropylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
			HD Polyethylene, 90° Peel,

Mechanical Properties	0.1643 kN/m Metric	0.9375 pli English	Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.175 kN/m	1.00 pli	Polypropylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.1972 kN/m	1.125 pli	LDPE, 180° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.20817 kN/m	1.1875 pli	HDPE, 180° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.20817 kN/m	1.1875 pli	Polycarbonate 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.23008 kN/m	1.3125 pli	HD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.23008 kN/m	1.3125 pli	LD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.23008 kN/m	1.3125 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.2410 kN/m	1.375 pli	Polypropylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.25199 kN/m	1.4375 pli	LD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.27391 kN/m	1.5625 pli	Polypropylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.27391 kN/m	1.5625 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.27391 kN/m	1.5625 pli	HD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.2849 kN/m	1.625 pli	Polypropylene, 180° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.3287 kN/m	1.875 pli	Polypropylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.3725 kN/m	2.125 pli	Glass, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.38347 kN/m	2.1875 pli	Stainless Steel, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4163 kN/m	2.375 pli	Stainless Steel, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.4163 kN/m	2.375 pli	Polycarbonate 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.44921 kN/m	2.5625 pli	Glass, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330

Mechanical Properties	Metric	English	Comments
	0.44821 kN/m	2.5525 pli	Glass, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.49303 kN/m	2.8125 pli	Glass, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.5040 kN/m	2.875 pli	Polycarbonate 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.5040 kN/m	2.875 pli	Stainless Steel, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.526 kN/m	3.00 pli	Polycarbonate 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.526 kN/m	3.00 pli	Glass, 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.526 kN/m	3.00 pli	Polycarbonate 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.53686 kN/m	3.0625 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.53686 kN/m	3.0625 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at 70°C; ASTM D3330
	0.5478 kN/m	3.125 pli	Glass, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.5478 kN/m	3.125 pli	Glass, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.5478 kN/m	3.125 pli	Polycarbonate 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.58068 kN/m	3.3125 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.58068 kN/m	3.3125 pli	Polycarbonate 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.6793 kN/m	3.875 pli	Stainless Steel, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	79.0 °C	174 °F	Service
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	Service
	10.0 °C	50.0 °F	Application

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Adhesive Type	310 Acrylic		
Liner	55# Densified kraft		

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