

3M 7744FL Polyester Overlaminating Film

Category : Polymer , Adhesive

Material Notes:

3M™ Polyester Overlaminating Films 7744 and 7744FL utilize a matte clear polyester that is recommended for optimum durability and thermal transfer printability. 3M™ Adhesive 400 offers excellent low temperature performance and long term aging for resistance to yellowing in outdoor applications. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-7744FL-Polyester-Overlaminating-Film.php

Physical Properties	Metric	English	Comments
Thickness	20.3 microns	0.800 mil	Adhesive
	33.0 microns	1.30 mil	Facestock
	38.1 microns	1.50 mil	Liner

Mechanical Properties	Metric	English	Comments	
Peel Strength	0.05478 kN/m	0.3125 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330	
	0.07669 kN/m	0.4375 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330	
	0.0877 kN/m	0.500 pli	HD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330	
	0.09861 kN/m	0.5625 pli	LD Polyethylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330	
	0.110 kN/m	0.625 pli	LD Polyethylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330	
	0.1205 kN/m	0.6875 pli	LD Polyethylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330	
	0.131 kN/m	0.750 pli	HD Polyethylene, 180° 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 RT; ASTM D3330	
	0.153 kN/m	0.875 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330	
	0.153 kN/m	0.875 pli	LD Polyethylene, 180° Peel, Conditioned for 3 days at RT; ASTM D3330	
				HD Polyethylene, 180° Peel,

Mechanical Properties	0.153 kN/m Metric	0.875 pli English	Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330 Comments
	0.1643 kN/m	0.9375 pli	HD Polyethylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.1643 kN/m	0.9375 pli	HD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.18626 kN/m	1.0625 pli	LD Polyethylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.18626 kN/m	1.0625 pli	LD Polyethylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.20817 kN/m	1.1875 pli	Polypropylene, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.23008 kN/m	1.3125 pli	HD Polyethylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.23008 kN/m	1.3125 pli	Polypropylene, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.25199 kN/m	1.4375 pli	Stainless Steel, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.263 kN/m	1.50 pli	Glass, 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.27391 kN/m	1.5625 pli	Polypropylene, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.2849 kN/m	1.625 pli	Polypropylene, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.2849 kN/m	1.625 pli	Polycarbonate 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.2849 kN/m	1.625 pli	Glass, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.29582 kN/m	1.6875 pli	Polypropylene, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.29582 kN/m	1.6875 pli	Polycarbonate 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.307 kN/m	1.75 pli	Polycarbonate 90° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.307 kN/m	1.75 pli	Polypropylene, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.31773 kN/m	1.8125 pli	Stainless Steel, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
			Polypropylene, 180° Peel, Conditioned

Mechanical Properties	0.31773 kN/m Metric	1.8125 pli English	for 3 days at RT; ASTM D3330 Comments
	0.351 kN/m	2.00 pli	Glass, 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.351 kN/m	2.00 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.351 kN/m	2.00 pli	Polypropylene, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.36156 kN/m	2.0625 pli	Stainless Steel, 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.36156 kN/m	2.0625 pli	Polycarbonate 90° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.36156 kN/m	2.0625 pli	Polycarbonate 180° Peel, Initial, 10 min dwell at RT; ASTM D3330
	0.3725 kN/m	2.125 pli	Polycarbonate 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.40538 kN/m	2.3125 pli	Polycarbonate 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.4163 kN/m	2.375 pli	Stainless Steel, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.4163 kN/m	2.375 pli	Glass, 90° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.42729 kN/m	2.4375 pli	Polycarbonate 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.438 kN/m	2.50 pli	Glass, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.438 kN/m	2.50 pli	Glass, 90° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.44921 kN/m	2.5625 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at RT; ASTM D3330
	0.5040 kN/m	2.875 pli	Stainless Steel, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.51494 kN/m	2.9375 pli	Glass, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330
	0.5478 kN/m	3.125 pli	Glass, 180° Peel, Conditioned for 3 days at 49°C; ASTM D3330
	0.73407 kN/m	4.1875 pli	Stainless Steel, 180° Peel, Conditioned for 24 hrs at 32°C at 90% RH; ASTM D3330

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	Service
	-12.0 °C	10.4 °F	Application

Processing Properties	Metric	English	Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Adhesive Type	#400 Acrylic	
Liner	Clear Polyester Liner	

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