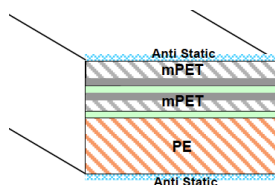


Exclusive USA / European representative  
for Senawang Laminating Technologies



## SL2270D Moisture Barrier Laminate



SL2270D is double metallized polyester based moisture barrier laminate designed for ESD applications. The toughness has been enhanced by using 12µm and 23µm layers of mPET. The construction has been designed to minimize some forms of contamination including outgassing, and nonvolatile residues. It is free of primary amines, amides and silicone compounds.

PHYSICAL PROPERTIES	TEST METHOD	US STD.	METRIC
Thickness*	ASTM D374	7.0 mil	178.0 µm ± 10%
Optical Density*	Densitometer (MPET only)	5.0	
Basis Weight*		113.1 lbs/ream	184.0 g/m <sup>2</sup> ± 10%
Yield		26.5 ft <sup>2</sup> /lb 3820 in <sup>2</sup> /lb	5.4 m <sup>2</sup> /kg
Tensile Strength MD* TD*	ASTM D882	7252 psi 7252 psi	50.0 MPa 50.0 MPa
Elmendorf Tear Resistance MD* TD*	ASTM D1922		200 gf 240 gf
Graves Strength MD* TD*	ASTM D1004		2400 gf 2400 gf
Spencer Impact*	ASTM D3420		6000 gf
Puncture Resistance*	FTMS 101C Method 2065	34.0 lbf	15400 gf
Moisture Vapor Transmission Rate	ASTM F1249	< 0.01 g/100 in <sup>2</sup> /day	< 0.15 g/m <sup>2</sup> /day
Heat Seal Range	ASTM F88-99	275°F - 500°F	135°C - 260°F
Seal Strength (min.)	ASTM F88-99 (200, 1s, 4 bar)	> 13.2 lbf	> 6000 gf
ELECTRICAL PROPERTIES	TEST METHOD	SPECIFICATIONS	
Surface Resistance	EOS/ESD S11.11	> 1x10 <sup>5</sup> and < 1 x 10 <sup>11</sup> Ω	
Surface Resistivity	EOS/ESD S11.11	> 1x10 <sup>5</sup> Ω/sq and < 1 x 10 <sup>11</sup> Ω/sq	
Electrostatic Decay	FTMS 101 Method 4046	< 0.05 s	
Energy Test*	EOS/ESD S11.31	< 5 nJ	

\*Average values given.

**Shelf Life:** The shelf life of this is one year under normal warehouse conditions. Extreme hot or cold temperatures and humidity can cause a reduction in the shelf life.

**Disclaimer:** The above information is presented in good faith based on a limited number of samples taken from normal production materials. Actual test values may vary from information presented. MacPac, Inc. and Senawang Laminating Technologies Sdn. Bhd. reserve the right to change the specification at anytime without prior notification. MacPac, Inc. and Senawang Laminating Technologies Sdn. Bhd. assume no liability, expressed or implied, for fitness of use of this product in any application. Users of this material are strongly encouraged to test its fitness of use in their processes and applications.