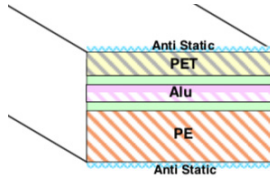


Exclusive USA / European representative
for Senawang Laminating Technologies



SL3240A Moisture Barrier Laminate



SL3240A is a shiny side out polyester/aluminium foil based moisture barrier laminate designed for ESD applications, using a 23micron PET outer layer for increased toughness. The construction is designed to minimize contamination, such as outgassing and non-volatile residues. It is free of primary amines, amides, and silicone compounds. This moisture barrier film meets the requirements of IPC/JEDEC J-STD-033C standard.

PHYSICAL PROPERTIES	TEST METHOD	US STD.	METRIC
Thickness*	ASTM D374	4.0 mil	101.0 $\mu\text{m} \pm 10\%$
Basis Weight*		73.7 lbs/ream	120.0 $\text{g}/\text{m}^2 \pm 10\%$
Yield		40.6 ft^2/lb 5860 in^2/lb	8.3 m^2/kg
Tensile Strength MD* TD*	ASTM D882	9280 psi 9720 psi	64.0 MPa 67.0 MPa
Elmendorf Tear Resistance MD* TD*	ASTM D1922		100 gf 150 gf
Graves Strength MD* TD*	ASTM D1004		1400 gf 1600 gf
Spencer Impact*	ASTM D3420		3700 gf
Puncture Resistance*	FTMS 101C Method 2065	24.0 lbf	10900 gf
Moisture Vapor Transmission Rate	ASTM F1249	< 0.0003 $\text{g}/100 \text{ in}^2/\text{day}$	< 0.005 $\text{g}/\text{m}^2/\text{day}$
Heat Seal Range	ASTM F88-99	275°F - 500°F	135°C - 260°F
Seal Strength (min.)	ASTM F88-99 (200°C, 1s, 4 bar)	> 11.0 lbf	> 5000 gf
ELECTRICAL PROPERTIES	TEST METHOD	SPECIFICATIONS	
Surface Resistance	EOS/ESD S11.11	> 1×10^5 and < $1 \times 10^{11} \Omega$	
Surface Resistivity	EOS/ESD S11.11	> $1 \times 10^5 \Omega/\text{sq}$ and < $1 \times 10^{11} \Omega/\text{sq}$	
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.