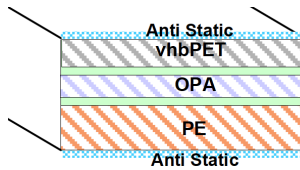


*Exclusive USA / European representative
for Senawang Laminating Technologies*



CTX003 Printed Clear Moisture Barrier Laminate



CTX003 is a printed clear polyester based moisture barrier laminate designed for ESD applications. The construction has been designed to resist puncture and minimize some forms of contamination including outgassing, and non-volatile residues. It is free of primary amines, amides and silicone compounds.

PHYSICAL PROPERTIES	TEST METHOD	US STANDARD	METRIC
Thickness*	ASTM D374	4.5 mil	114.0 $\mu\text{m} \pm 10\%$
Basis Weight*		71.0 lbs/ream	116.0 $\text{g}/\text{m}^2 \pm 10\%$
Yield		42.0 ft^2/lb 6060 in^2/lb	8.6 m^2/kg
Tensile Strength MD* TD*	ASTM D882	13053 psi 12328 psi	90.0 MPa 85.0 MPa
Elmendorf Tear Resistance MD* TD*	ASTM D1922		100 gf 110 gf
Graves Strength MD* TD*	ASTM D1004		1700 gf 1700 gf
Spencer Impact*	ASTM D3420		6000 gf
Puncture Resistance*	FTMS 101C Method 2065	34.0 lbf	15400 gf
MVTR	ASTM F129-90	<0.005 $\text{g}/100\text{in}^2/\text{day}$	<0.08 $\text{g}/\text{m}^2/\text{day}$
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)	> 15.4 lbf	> 7000 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	> $1 \times 10^6 \Omega/\text{sq}$ and < $1 \times 10^{12} \Omega/\text{sq}$	

*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 is 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.