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ALPHALAM X 130

Product Composition		English	<u>Metric</u>
Fluoroplastic Chemical Barrier Compound 100% virgin PTFE resin		0.005 inch	0.13mm
Physical Property	Test Method	English	<u>Metric</u>
Composite Weight, Nom	Basis Weight	7 oz/yd^2	$240g/m^2$
Composite Thickness, Nom	ASTM D1777	0.005 inch	0.13mm
Tensile Strength, Min	ASTM D4851	12 lbs/inch (MD) 12 lbs/inch (XD)	110 N/50mm [MD] 110 N/50mm [XD]
Permeation Resistance ¹	ASTM F739	0.0 perm	0.0 ng/N
Trapezoidal Tear Strength, Min	ASTM D4851	22 lbs/inch (MD) 22 lbs/inch (XD)	100 N [MD] 100 N [XD]
Adhesion Strength, Min	ASTM D4851	5 lbs/inch	45 N/50mm
Flexural Endurance [-1]	ASTM D4851 60% to 100%	75% average	
Low Temperature Resistance	ASTM D1790 -100°F [-73°C]	Remains Flexible No Delamination	
High Temperature Resistance	ASTM D1790	Remains Flexible	

No Delamination

No Delamination

No Growth

No Growth

+600°F [+316°C]

24 hours @ 73° [23°C]

ASTM C665 / C1338

ASTM G21 [both sides]

Water Immersion

Mold Resistance

DATA SHEET: 14184 REV. B DATE: 3/9/2016 * All values are nominal unless otherwise specified.

Specializing in marine, aerospace, automotive and commercial fabrics for thermal and industrial applications

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¹The AlphaLam X composite was investigated for permeation by an independent laboratory. Sulfuric acid [2N] at 5 psig was used as the test medium. The AlphaLam X composite exhibited zero breakthrough and/or permeation. Test reports available upon request.