ALPHA
engineered elastomers
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ALPHALAM 2001

Product Composition	**English**	**Metric**
Fluoroplastic Chemical Barrier Compound [cast PTFE film]	0.004 inch	0.10mm
Custom film colors available upon request		
Coated Fiberglass Substrate	0.043 inch	1.10mm
Fluoroplastic Coating Compound	15 oz/yd^2	507 g/m^2
100% virgin PTFE resin [35% to 40% by weight]		

Physical Property	**Test Method**	**English**	**Metric**
Composite Weight, Nom	Basis Weight	54.0 oz/yd^2	1834 g/m^2
Composite Thickness, Nom	ASTM D1777	.047 inch	1.2mm
Tensile Strength, Min	ASTM D4851	1000 lbs/inch (MD) 1000 lbs/inch (XD)	8900 N/50mm [MD] 8900 N/50mm [XD]
Permeation Resistance[1]	ASTM F739	0.0 perm	0.0 ng/N
Trapezoidal Tear Strength, Min	ASTM D4851	50 lbs/inch (MD) 50 lbs/inch (XD)	222 N [MD] 222 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 -75°F [-60°C]	Remains Flexible No Delamination	
High Temperature Resistance	ASTM D1790 +600°F [+316°C]	Remains Flexible No Delamination	
Water Immersion	24 hours @ 73° [23°C]	No Delamination	
Mold Resistance	ASTM C665 / C1338 ASTM G21 [both sides]	No Growth No Growth	

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

ALPHALAM 2001 MEETS OR EXCEEDS THE REQUIREMENTS OF FSA-DSJ-403-07.

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