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## ALPHALAM 1001

Product Composition		<b>English</b>		<u>Metric</u>
Fluoroplastic Chemical Barrier Compound [cast PTFE film] Custom film colors available upon request		0.004 inch		0.10mm
Coated Fiberglass Substrate Fluoroplastic Coating Compound 100% virgin PTFE resin [35% to 40% by weight]		$0.042 \text{ inch}$ $14.4 \text{ oz/yd}^2$		1.05mm 490 g/m <sup>2</sup>
Physical Property	Test Method	English		<u>Metric</u>
Composite Weight, Nom	Basis Weight	$38.0 \text{ oz/yd}^2$		$1300 \text{ g/m}^2$
Composite Thickness, Nom	ASTM D1777	.040 inch		1.0mm
Tensile Strength, Min	ASTM D4851	600 lbs/inch (MD) 600 lbs/inch (XD)		6000 N/50mm [MD] 6000 N/50mm [XD]
Permeation Resistance <sup>1</sup>	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 Fle No Delamina		
High Temperature Resistance	ASTM D1790 +600°F [+316°C]	Remains Flexi No Delaminati		
Water Immersion	24 hours @ 73° [23°C]		No Delamination	
Mold Resistance	ASTM C665 / C1338 ASTM G21 [both sides	s]	No Growth No Growth	

<sup>&</sup>lt;sup>1</sup>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.

DATA SHEET: 14146 REV. A DATE: 01/01/12 \* All values are nominal unless otherwise specified.

intended.

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

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