



ALPHA

engineered composites

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ALPHALAM 430

Product Description

Fluoropolymer coated and laminated composites are widely used for manufacturing of non-metallic expansion joints, insulation jacketing, blanket facings, and various thermal and vapor barrier applications. Our PTFE fiberglass composites and laminates are engineered to survive corrosive environments and severe temperatures.

Product Composition

AlphaLam series fluoroplastic chemical barrier composite (100% virgin, cast PTFE film) combined with high strength fiberglass reinforcement. Custom film colors available upon request

<u>Physical Property</u>	<u>Test Method</u>	<u>English</u>
Width, Nom	ASTM D3774	61 in.
Composite Weight, Nom	ASTM D3776	12.7 oz/yd ²
Composite Thickness, Nom	ASTM D1777	.012 inch
Tensile Strength, Min	ASTM D4851	1000 lbs/inch (MD) 1000 lbs/inch (XD)
Permeation Resistance ¹	ASTM F739	0.0 perm
Trapezoidal Tear Strength, Min	ASTM D4851	25 lbs/inch (MD) 25 lbs/inch (XD)
Adhesion Strength, Min	ASTM D4851	5 lbs/inch
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

¹The 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: 14131 REV. B DATE: 1/15/2018 * All values are nominal unless otherwise specified.

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

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