

ALPHALAM X 510

Product Composition English

Fluoroplastic Chemical Barrier Compound 100% virgin PTFE resin

Permeation Resistance¹

Flexural Endurance [-1]

Mold Resistance

0.020 inch 0.51mm

75% average

0.0 ng/N

Physical Property	Test Method	English	<u>Metric</u>
Composite Weight, Nom	Basis Weight	28.6 oz/yd^2	970g/m^2
Composite Thickness, Nom	ASTM D1777	0.020 inch	0.51mm
Tensile Strength, Min	ASTM D4851	75 lbs/inch (MD) 75 lbs/inch (XD)	672 N/50mm [MD] 672 N/50mm [XD]

Trapezoidal Tear Strength, Min **ASTM D4851** 62 lbs/inch (MD) 276 N [MD] 62 lbs/inch (XD) 276 N [XD] 45 N/50mm

Adhesion Strength, Min ASTM D4851 5 lbs/inch

> **ASTM D4851** 60% to 100%

ASTM F739

Low Temperature Resistance ASTM D1790 Remains Flexible -100°F [-73°C] No Delamination High Temperature Resistance

ASTM D1790 Remains Flexible +600°F [+316°C] No Delamination

0.0 perm

Water Immersion 24 hours @ 73° [23°C] No Delamination

> ASTM C665 / C1338 No Growth ASTM G21 [both sides] No Growth

DATA SHEET: 14262 REV. A DATE: 5/24/2017 * All values are nominal unless otherwise specified.

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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.