

3A Composites Core Materials AIREX® PXw.420 Fiber-Reinforced Structural Foam Panel

Category : Other Engineering Material , Composite Core Material , Polymer

Material Notes:

AIREX® PXw is a closed-cell, fiber reinforced polymer foam panel with a special formulation and very high mechanical properties. The sophisticated manufacturing process evenly distributes continuous glass fibers with woven fabrics throughout the foam. This generates a product with enhanced mechanical properties in flexure (bending), allowing it to be used with or without face sheets. AIREX® PXw is dimensionally stable, does not lose strength when wet, and is resistant to chemicals and high temperatures. It is ideally suited as a material for static applications requiring high stiffness or as a replacement for wood and plywood. Characteristics Stand alone product – does not need face sheets High flexural strength and stiffness Replacement for wood and plywood Good fastener pull-out strength High heat resistance Compatible with a wide range of resins and adhesives Dimensionally stable High styrene resistance Very low water absorption Non biodegradable Excellent chemical resistance Applications Marine: Floors, soles, bulkheads, transoms, stringers, engine beds, interiors, local reinforcements, tooling and molds Road and Rail: Floors, sidewalls, roofs, engine covers, interior panels Industrial: Covers, tanks, containers, floors, tooling and molds, concrete pouring forms, architectural panels, tub and shower enclosures

Order this product through the following link:

http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-PXw420-Fiber-Reinforced-Structural-Foam-Panel.php

Physical Properties	Metric	English	Comments
Density	0.420 g/cc	0.0152 lb/in ³	apparent nominal; ASTM C271

Mechanical Properties	Metric	English	Comments
Flexural Strength	38.0 MPa @Thickness 19.0 mm	5510 psi @Thickness 0.750 in	ASTM D790
Flexural Modulus	2.43 GPa @Thickness 19.0 mm	352 ksi @Thickness 0.750 in	ASTM D790
Compressive Strength	3.90 MPa @Thickness 19.0 mm	566 psi @Thickness 0.750 in	perpendicular to plane; ASTM C365
Compressive Modulus	0.182 GPa @Thickness 19.0 mm	26.4 ksi @Thickness 0.750 in	perpendicular to plane; ASTM C365
Shear Modulus	0.103 GPa	14.9 ksi	ASTM C273
Shear Strength	2.20 MPa	319 psi	ASTM C273

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