

3A Composites Core Materials AIREX® PXC.385 Fiber-Reinforced Structural Foam

Category : Other Engineering Material , Composite Core Material , Polymer

Material Notes:

AIREX® PXC is a closed-cell, fiber reinforced polymer foam with very high mechanical properties ideally suited as core material for structurally loaded sandwich applications. The sophisticated manufacturing process evenly distributes continuous glass fibers throughout the foam generating a very consistent foam with enhanced mechanical properties especially in compression and shear. AIREX® PXC is dimensionally stable, has very low water absorption, and is resistant to chemicals and high temperatures. It is ideally suited as a core material for highly loaded sandwich structures or as a replacement for wood and plywood. Characteristics 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, 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, tooling and molds, local reinforcements, architectural panels, sporting goods

Order this product through the following link:

http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-PXC385-Fiber-Reinforced-Structural-Foam.php

Physical Properties	Metric	English	Comments
Density	0.385 g/cc	0.0139 lb/in ³	apparent nominal; ASTM C271

Mechanical Properties	Metric	English	Comments
Flexural Strength	11.5 MPa @Thickness 19.0 mm	1670 psi @Thickness 0.750 in	ASTM D790
Flexural Modulus	0.581 GPa @Thickness 19.0 mm	84.3 ksi @Thickness 0.750 in	ASTM D790
Compressive Strength	7.80 MPa @Thickness 19.0 mm	1130 psi @Thickness 0.750 in	perpendicular to plane; ASTM C365
Compressive Modulus	0.277 GPa @Thickness 19.0 mm	40.2 ksi @Thickness 0.750 in	perpendicular to plane; ASTM C365
Shear Modulus	0.170 GPa	24.7 ksi	ASTM C273
Shear Strength	4.80 MPa	696 psi	ASTM C273

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