

## 3A Composites Core Materials AIREX® PXw.385 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-PXw385-Fiber-Reinforced-Structural-Foam-Panel.php](http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-PXw385-Fiber-Reinforced-Structural-Foam-Panel.php)

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

Mechanical Properties	Metric	English	Comments
Flexural Strength	33.0 MPa	4790 psi	ASTM D790
	@Thickness 19.0 mm	@Thickness 0.750 in	
Flexural Modulus	2.243 GPa	325.3 ksi	ASTM D790
	@Thickness 19.0 mm	@Thickness 0.750 in	
Compressive Strength	3.10 MPa	450 psi	perpendicular to plane; ASTM C365
	@Thickness 19.0 mm	@Thickness 0.750 in	
Compressive Modulus	0.145 GPa	21.0 ksi	perpendicular to plane; ASTM C365
	@Thickness 19.0 mm	@Thickness 0.750 in	
Shear Modulus	0.0830 GPa	12.0 ksi	ASTM C273
Shear Strength	1.80 MPa	261 psi	ASTM C273

## Contact Songhan Plastic Technology Co.,Ltd.

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