

3A Composites Core Materials AIREXÂ® C70.200 Universal Structural Foam

Category : Other Engineering Material , Composite Core Material , Polymer

Material Notes:

AIREXÂ® C70 is a closed cell, crosslinked polymer foam that combines excellent stiffness and strength to weight ratios with superior toughness. It is non-friable, contains no CFCs, has negligible water absorption, and provides an excellent resistance to chemicals. A fine cell structure offers an excellent bonding surface. Compatible with most resins and manufacturing processes AIREXÂ® C70 is ideally suited as a core material for a wide variety of lightweight sandwich structures subjected to both static and dynamic loads.

Characteristics: outstanding strength and stiffness to weight ratios, Good impact strength, Low resin absorption, High fatigue resistance, Good fire performance (self-extinguishing), Sound and thermal insulation, Good styrene resistance.

Applications: Marine: Hulls, decks, bulkheads, superstructures, interiors; Road and Rail: Roof panels, interiors, floors, doors, partition walls, side skirts, front-ends; Aircraft: Interiors, radomes, galley carts, general aviation (fuselage and wing); Recreation: Skis, snowboards, surfboards, wakeboards, canoes, kayaks; Industrial: Tooling, tanks, ductwork, containers, covers

Order this product through the following link:

http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-C70200-Universal-Structural-Foam.php

Physical Properties	Metric	English	Comments
Density	0.200 g/cc	0.00723 lb/in ³	average; ISO 845
	0.180 - 0.250 g/cc	0.00650 - 0.00903 lb/in ³	typical range; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 4.80 MPa	>= 696 psi	in the plane; ISO 527 1-2
	6.00 MPa	870 psi	average; in the plane; ISO 527 1-2
Elongation at Break	>= 20 %	>= 20 %	shear; ISO 1922
	30 %	30 %	average; shear; ISO 1922
Tensile Modulus	>= 0.140 GPa	>= 20.3 ksi	in the plane; ISO 527 1-2
	0.175 GPa	25.4 ksi	average; in the plane; ISO 527 1-2
Compressive Strength	>= 4.50 MPa	>= 653 psi	perpendicular to plane; ISO 844
	5.20 MPa	754 psi	average; perpendicular to plane; ISO 844
Compressive Modulus	>= 0.240 GPa	>= 34.8 ksi	perpendicular to plane; DIN 53421
	0.280 GPa	40.6 ksi	average; perpendicular to plane; DIN 53421
Shear Modulus	>= 0.0680 GPa	>= 9.86 ksi	ASTM C393
	0.0750 GPa	10.9 ksi	average; ASTM C393

Mechanical Properties	Metric	English	Comments
Shear Strength	3.50 MPa	508 psi	ISO 1922
	3.50 MPa	508 psi	average; ISO 1922

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0480 W/m-K	0.333 BTU-in/hr-ft ² - °F	ISO 8301

Descriptive Properties	Value	Comments
Color	brown	

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