

3A Composites Core Materials AIREX® C70.75 Universal Structural Foam

Category : Other Engineering Material , Composite Core Material , Polymer

Material Notes:

AIREX® 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 CFC's, 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 AIREX® 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-C7075-Universal-Structural-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0800 g/cc	0.00289 lb/in ³	average; ISO 845
	0.0720 - 0.0920 g/cc	0.00260 - 0.00332 lb/in ³	typical range; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 1.60 MPa	>= 232 psi	in the plane; ISO 527 1-2
	2.00 MPa	290 psi	average; in the plane; ISO 527 1-2
Elongation at Break	>= 10 %	>= 10 %	shear; ISO 1922
	18 %	18 %	average; shear; ISO 1922
Tensile Modulus	>= 0.0500 GPa	>= 7.25 ksi	in the plane; ISO 527 1-2
	0.0660 GPa	9.57 ksi	average; in the plane; ISO 527 1-2
Compressive Strength	>= 1.10 MPa	>= 160 psi	perpendicular to plane; ISO 844
	1.45 MPa	210 psi	average; perpendicular to plane; ISO 844
Compressive Modulus	>= 0.0800 GPa	>= 11.6 ksi	perpendicular to plane; DIN 53421
	0.104 GPa	15.1 ksi	average; perpendicular to plane; DIN 53421
Shear Modulus	>= 0.0240 GPa	>= 3.48 ksi	ASTM C393
	0.0300 GPa	4.35 ksi	average; ASTM C393

Mechanical Properties	Metric	English	Comments
Shear Strength	1.20 MPa	174 psi	ISO 1922
	1.20 MPa	174 psi	average; ISO 1922

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0330 W/m-K	0.229 BTU-in/hr-ft ² -°F	ISO 8301

Descriptive Properties	Value	Comments
Color	green	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China