3A Composites Core Materials AIREX® C70.250 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.Characteristicsoutstanding strength and stiffness to weight ratiosGood impact strengthLow resin absorptionHigh fatigue resistanceGood fire performance (self-extinguishing)Sound and thermal insulationGood styrene resistanceApplicationsMarine: Hulls, decks, bulkheads, superstructures, interiorsRoad and Rail: Roof panels, interiors, floors, doors, partition walls, side skirts, front-endsAircraft: Interiors, radomes, galley carts, general aviation (fuselage and wing)Recreation: Skis, snowboards, surfboards, wakeboards, canoes, kayaksIndustrial: Tooling, tanks, ductwork, containers, covers

Order this product through the following link:
http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-C70250-Universal-Structural-Foam.php

Physical Properties	Metric	English	Comments
Density	0.250 g/cc	0.00903 lb/in³	average; ISO 845
	0.225 - 0.288 g/cc	0.00813 - 0.0104 lb/in³	typical range; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 5.50 MPa	>= 798 psi	in the plane; ISO 527 1-2
	7.50 MPa	1090 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	>= 0.160 GPa	>= 23.2 ksi	in the plane; ISO 527 1-2
	0.230 GPa	33.4 ksi	average; in the plane; ISO 527 1-2
Compressive Strength	>= 5.30 MPa	>= 769 psi	perpendicular to plane; ISO 844
	6.60 MPa	957 psi	average; perpendicular to plane; ISO 844
Compressive Modulus	>= 0.280 GPa	>= 40.6 ksi	perpendicular to plane; DIN 53421
	0.350 GPa	50.8 ksi	average; perpendicular to plane; DIN 53421
Shear Modulus	>= 0.0780 GPa	>= 11.3 ksi	ASTM C393
	0.0950 GPa	13.8 ksi	average; ASTM C393

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 3.80 MPa	>= 551 psi	ISO 1922
	4.70 MPa	682 psi	average; ISO 1922

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0560 W/m-K	0.389 BTU-in/hr-ft²-°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