

3A Composites Core Materials AIREX® C70.40 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-C7040-Universal-Structural-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0400 g/cc	0.00145 lb/in ³	average; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.700 MPa	102 psi	average; in the plane; ISO 527 1-2
Elongation at Break	8.0 %	8.0 %	average; shear; ISO 1922
Tensile Modulus	0.0280 GPa	4.06 ksi	average; in the plane; ISO 527 1-2
Compressive Strength	0.450 MPa	65.3 psi	perpendicular to plane; ISO 844
Compressive Modulus	0.0410 GPa	5.95 ksi	average; perpendicular to plane; DIN 53421
Shear Modulus	0.0130 GPa	1.89 ksi	average; ASTM C393
Shear Strength	0.450 MPa	65.3 psi	average; ISO 1922

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0310 W/m-K	0.215 BTU-in/hr-ft ² -°F	ISO 8301

Descriptive Properties	Value	Comments
Color	light green	

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