

3A Composites Core Materials AIREX® T90.60 Easy Processing Structural FST Foam

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoplastic

Material Notes:

AIREX® T90 is a closed-cell, thermoplastic and recyclable polymer foam with excellent fire, smoke & toxicity (FST) properties. It has very good mechanical properties and a good resistance to fatigue, is chemically stable, UV-resistant and has negligible water absorption. It is thermally stable during high temperature processing and post curing without after expansion or outgassing. T90 is designed for easy use with all resin systems and processing technologies. AIREX® T90 is the ideal core material for structural sandwich applications requiring high fire resistance. Characteristic Good FST Properties (FAR 25.853; NF 16.101; DIN 5510) Excellent fatigue strength Easy to process with all types of resin and lamination processes Excellent long term thermal stability up to 100°C (212°F) Best thermal stability in process up to 150°C (302 °F) High compression strength and modulus Very low variance of the mechanical values Good adhesion (skin-to-core bond) Excellent chemical stability No water absorption No after-expansion, no outgassing Applications Road and Rail: Floors, sidewalls, font ends, interiors, roofs, engine covers Marine: Decks, interiors, superstructure Industrial: Cover, containers, x-ray tables, sporting good Architecture and Construction: Roofs, claddings, domes, portable building

Order this product through the following link:

http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-AIREX-T9060-Easy-Processing-Structural-FST-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0650 g/cc	0.00235 lb/in ³	average; ISO 845
	0.0600 - 0.0700 g/cc	0.00217 - 0.00253 lb/in ³	typical range; ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 1.20 MPa	>= 174 psi	perpendicular to plane; ASTM C297
	1.50 MPa	218 psi	average; perpendicular to plane; ASTM C297
Elongation at Break	>= 8.0 %	>= 8.0 %	shear; ISO 1922
	12 %	12 %	average; shear; ISO 1922
Tensile Modulus	>= 0.0700 GPa	>= 10.2 ksi	perpendicular to plane; ASTM C297
	0.0850 GPa	12.3 ksi	average; perpendicular to plane; ASTM C297
Compressive Strength	>= 0.700 MPa	>= 102 psi	perpendicular to plane; ISO 844
	0.800 MPa	116 psi	average; perpendicular to plane; ISO 844
Compressive Modulus	>= 0.0350 GPa	>= 5.08 ksi	perpendicular to plane; DIN 53421
	0.0500 GPa	7.25 ksi	average; perpendicular to plane; DIN 53421

Mechanical Properties	Metric	English	Comments
Shear Modulus	12.0 GPa	1740 ksi	average; ASTM C393
Shear Strength	>= 0.400 MPa	>= 58.0 psi	ISO 1922
	0.460 MPa	66.7 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

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