Hexcel® HexWeb® CFC™-20-1/8-5.0 Composite Flooring Honeycomb Core

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoset , Aramid

Material Notes:

Designation: Material-Cell Size-Density.Hexweb® CFC™-20 is manufactured from NOMEX aramid fiber sheets. A thermosetting adhesive is used to bond these sheets at the nodes and, after expanding to the hexagonal configuration, the block is dipped in phenolic resin. After curing the resin, slices are cut to the desired thickness.Features: Specifically designed for aircraft flooring applications; Superior properties and performance over balsa and foam core materials; Proven durability in extensive flooring tests; Significant weight advantage over balsa and foam core materials; Exceeds all FAA safety requirements; Excellent property retention at 350°F; Moisture and fungus resistant.Applications: Hexweb® CFC™-20 honeycomb core was specifically developed to provide a tough, lightweight core material for use in aircraft flooring systems. A range of product densities are available to fit a wide variety of loading requirements. The core material when bonded to metallic or nonmetallic facings provides a flooring panel sheet which may be cut or contoured to fit any aircraft flooring module.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Hexcel-HexWeb-CFC-20-18-50-Composite-Flooring-Honeycomb-Core.php

Physical Properties	Metric	English	Comments
Density	0.0801 g/cc	0.00289 lb/in³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.52 MPa	>= 510 psi	Bare, min
	>= 3.79 MPa	>= 550 psi	Stabilized, min
	4.83 MPa	700 psi	Bare, typ
	5.14 MPa	745 psi	Stabilized, typ
Shear Modulus	0.0448 GPa	6.50 ksi	Plate Shear, W Direction, typ, preliminary value obtained from limited testing
	0.0827 GPa	12.0 ksi	Plate Shear, L Direction, typ, preliminary value obtained from limited testing
Shear Strength	>= 1.10 MPa	>= 160 psi	Plate Shear, W Direction, min, preliminary value obtained from limited testing
	1.41 MPa	205 psi	Plate Shear, W Direction, typ, preliminary value obtained from limited testing
	>= 1.86 MPa	>= 270 psi	Plate Shear, L Direction, min, preliminary value obtained from limited testing
	2.45 MPa	355 psi	Plate Shear, L Direction, typ, preliminary value obtained from limited testing

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