

Hexcel® HexWeb® HRH-10/OX - 3/16 - 1.8 Aramid Fiber/Phenolic Resin Honeycomb

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

Material Notes:

Designation: Material-Cell Size-Density.Hexweb® HRH-10 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 or OX-Core® configuration, the block is dipped in phenolic resin. After curing the resin, slices are cut to the desired thickness. For special applications, such as air directionalizing, HexWeb® HRH-10 can be provided without the phenolic resin. Using this process, a wide range of cell sizes, paper thicknesses, and densities can be produced.Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-10OX-316-18-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0288 g/cc	0.00104 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 0.586 MPa	>= 85.0 psi	Bare, min
	>= 0.655 MPa	>= 95.0 psi	Stabilized, min
	0.758 MPa	110 psi	Bare, typ
	0.827 MPa	120 psi	Stabilized, typ
Compressive Modulus	0.0483 GPa	7.00 ksi	Stabilized, typ
Shear Modulus	0.0138 GPa	2.00 ksi	Plate Shear, L Direction, typ
	0.0207 GPa	3.00 ksi	Plate Shear, W Direction, typ
Shear Strength	>= 0.310 MPa	>= 45.0 psi	Plate Shear, L Direction, min
	>= 0.345 MPa	>= 50.0 psi	Plate Shear, W Direction, min
	0.448 MPa	65.0 psi	Plate Shear, L Direction, typ
	0.483 MPa	70.0 psi	Plate Shear, W Direction, typ

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