

Hexcel® HexWeb® HRH-10 - 1/2 - 2.0 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-10-12-20-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0320 g/cc	0.00116 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 0.621 MPa	>= 90.0 psi	Bare, min
	>= 0.655 MPa	>= 95.0 psi	Stabilized, min
	0.793 MPa	115 psi	Bare, typ
	0.827 MPa	120 psi	Stabilized, typ
Shear Modulus	0.0138 GPa	2.00 ksi	Plate Shear, W Direction, typ
	0.0310 GPa	4.50 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.228 MPa	>= 33.0 psi	Plate Shear, W Direction, min
	0.310 MPa	45.0 psi	Plate Shear, W Direction, typ
	>= 0.621 MPa	>= 90.0 psi	Plate Shear, L Direction, min
	0.758 MPa	110 psi	Plate Shear, L Direction, typ

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