

Hexcel® HexWeb® HRH-10 - 1/4 - 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-10-14-20-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	>= 0.793 MPa	>= 115 psi	Bare, min
	>= 0.862 MPa	>= 125 psi	Stabilized, min
	0.965 MPa	140 psi	Bare, typ
	1.07 MPa	155 psi	Stabilized, typ
Compressive Modulus	0.0758 GPa	11.0 ksi	Stabilized, typ
Shear Modulus	0.0138 GPa	2.00 ksi	Plate Shear, W Direction, typ
	0.0276 GPa	4.00 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.276 MPa	>= 40.0 psi	Plate Shear, W Direction, min
	0.345 MPa	50.0 psi	Plate Shear, W Direction, typ
	>= 0.586 MPa	>= 85.0 psi	Plate Shear, L Direction, min
	0.724 MPa	105 psi	Plate Shear, L Direction, typ

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