

Hexcel® HexWeb® HRH-10 - 1/8- 5.0 Aramid Fiber/Phenolic Resin Honeycomb

Category : Other Engineering Material , Composite Core Material , 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-10-18-50-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0801 g/cc	0.00289 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.86 MPa	>= 560 psi	Bare, min
	>= 4.27 MPa	>= 620 psi	Stabilized, min
	4.83 MPa	700 psi	Bare, typ
	5.31 MPa	770 psi	Stabilized, typ
Compressive Modulus	0.255 GPa	37.0 ksi	Stabilized, typ
Shear Modulus	0.0372 GPa	5.40 ksi	Plate Shear, W Direction, typ
	0.0703 GPa	10.2 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.03 MPa	>= 150 psi	Plate Shear, W Direction, min
	1.21 MPa	175 psi	Plate Shear, W Direction, typ
	>= 1.90 MPa	>= 275 psi	Plate Shear, L Direction, min
	2.24 MPa	325 psi	Plate Shear, L Direction, typ

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