

Hexcel® HexWeb® HRH-10 - 3/16 - 1.5 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-10-316-15-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0240 g/cc	0.000868 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 0.517 MPa	>= 75.0 psi	Bare, min
	>= 0.586 MPa	>= 85.0 psi	Stabilized, min
	0.621 MPa	90.0 psi	Bare, typ
Compressive Modulus	0.689 MPa	100 psi	Stabilized, typ
	0.0414 GPa	6.00 ksi	Stabilized, typ
Shear Modulus	0.0110 GPa	1.60 ksi	Plate Shear, W Direction, typ
	0.0207 GPa	3.00 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.221 MPa	>= 32.0 psi	Plate Shear, W Direction, min
	0.276 MPa	40.0 psi	Plate Shear, W Direction, typ
	>= 0.414 MPa	>= 60.0 psi	Plate Shear, L Direction, min
	0.517 MPa	75.0 psi	Plate Shear, L Direction, typ

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