

Hexcel® HexWeb® HRH-10 - 3/16 - 1.8 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-10-316-18-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	>= 0.655 MPa	>= 95.0 psi	Bare, min
	>= 0.724 MPa	>= 105 psi	Stabilized, min
	0.827 MPa	120 psi	Bare, typ
	0.896 MPa	130 psi	Stabilized, typ
Compressive Modulus	0.0552 GPa	8.00 ksi	Stabilized, typ
Shear Modulus	0.0131 GPa	1.90 ksi	Plate Shear, W Direction, typ
	0.0262 GPa	3.80 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
	>= 0.517 MPa	>= 75.0 psi	Plate Shear, L Direction, min
	0.621 MPa	90.0 psi	Plate Shear, L Direction, typ

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