

Hexcel® HexWeb® HRH-10 - 3/8 - 3.0 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-10-38-30-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0481 g/cc	0.00174 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.65 MPa	>= 240 psi	Bare, min
	>= 1.86 MPa	>= 270 psi	Stabilized, min
	2.00 MPa	290 psi	Bare, typ
	2.21 MPa	320 psi	Stabilized, typ
Compressive Modulus	0.117 GPa	17.0 ksi	Stabilized, typ
Shear Modulus	0.0241 GPa	3.50 ksi	Plate Shear, W Direction, typ
	0.0386 GPa	5.60 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.552 MPa	>= 80.0 psi	Plate Shear, W Direction, min
	0.655 MPa	95.0 psi	Plate Shear, W Direction, typ
	>= 1.10 MPa	>= 160 psi	Plate Shear, L Direction, min
	1.28 MPa	185 psi	Plate Shear, L Direction, typ

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