

Hexcel® HexWeb® HRH-10/OX - 3/16 - 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-10OX-316-30-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	>= 1.79 MPa	>= 260 psi	Bare, min
	>= 1.97 MPa	>= 285 psi	Stabilized, min
	2.21 MPa	320 psi	Bare, typ
	2.41 MPa	350 psi	Stabilized, typ
Compressive Modulus	0.117 GPa	17.0 ksi	Stabilized, typ
Shear Modulus	0.0207 GPa	3.00 ksi	Plate Shear, L Direction, typ
	0.0414 GPa	6.00 ksi	Plate Shear, W Direction, typ
Shear Strength	>= 0.655 MPa	>= 95.0 psi	Plate Shear, L Direction, min
	>= 0.758 MPa	>= 110 psi	Plate Shear, W Direction, min
	0.793 MPa	115 psi	Plate Shear, L Direction, typ
	0.931 MPa	135 psi	Plate Shear, W Direction, typ

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