

Hexcel® HexWeb® HRH-10 - 1/8- 8.0 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-10-18-80-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.128 g/cc	0.00463 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 9.45 MPa	>= 1370 psi	Bare, min
	>= 10.0 MPa	>= 1450 psi	Stabilized, min
	11.55 MPa	1675 psi	Bare, typ
	12.6 MPa	1830 psi	Stabilized, typ
Compressive Modulus	0.538 GPa	78.0 ksi	Stabilized, typ
Shear Modulus	0.0655 GPa	9.50 ksi	Plate Shear, W Direction, typ
	0.110 GPa	16.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.45 MPa	>= 210 psi	Plate Shear, W Direction, min
	1.79 MPa	260 psi	Plate Shear, W Direction, typ
	>= 2.76 MPa	>= 400 psi	Plate Shear, L Direction, min
	3.31 MPa	480 psi	Plate Shear, L Direction, typ

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