

Hexcel® HexWeb® HRH-10 - 1/4 - 3.1 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-10-14-31-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0497 g/cc	0.00179 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.65 MPa	>= 240 psi	Bare, min
	>= 1.83 MPa	>= 265 psi	Stabilized, min
	1.97 MPa	285 psi	Bare, typ
	2.14 MPa	310 psi	Stabilized, typ
Compressive Modulus	0.145 GPa	21.0 ksi	Stabilized, typ
Shear Modulus	0.0207 GPa	3.00 ksi	Plate Shear, W Direction, typ
	0.0448 GPa	6.50 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.517 MPa	>= 75.0 psi	Plate Shear, W Direction, min
	0.621 MPa	90.0 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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