

Hexcel® HexWeb® HRH-10 - 1/4 - 4.0 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-10-14-40-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0641 g/cc	0.00231 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 2.48 MPa	>= 360 psi	Bare, min
	>= 2.69 MPa	>= 390 psi	Stabilized, min
	3.03 MPa	440 psi	Bare, typ
	3.31 MPa	480 psi	Stabilized, typ
Compressive Modulus	0.193 GPa	28.0 ksi	Stabilized, typ
Shear Modulus	0.0241 GPa	3.50 ksi	Plate Shear, W Direction, typ
	0.0552 GPa	8.00 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.689 MPa	>= 100 psi	Plate Shear, W Direction, min
	0.862 MPa	125 psi	Plate Shear, W Direction, typ
	>= 1.41 MPa	>= 205 psi	Plate Shear, L Direction, min
	1.72 MPa	250 psi	Plate Shear, L Direction, typ

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