

Hexcel® HexWeb® HRH-10 - 3/4 - 1.5 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-10-34-15-Aramid-FiberPhenolic-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0240 g/cc	0.000868 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 0.345 MPa	>= 50.0 psi	Bare, min, preliminary value obtained from limited testing
	>= 0.379 MPa	>= 55.0 psi	Stabilized, min, preliminary value obtained from limited testing
	>= 0.483 MPa	>= 70.0 psi	Bare, typ, preliminary value obtained from limited testing
	>= 0.552 MPa	>= 80.0 psi	Stabilized, typ, preliminary value obtained from limited testing
Compressive Modulus	0.0483 GPa	7.00 ksi	Stabilized, typ, preliminary value obtained from limited testing
Shear Modulus	0.0117 GPa	1.70 ksi	Plate Shear, W Direction, typ, preliminary value obtained from limited testing
	0.0234 GPa	3.40 ksi	Plate Shear, L Direction, typ, preliminary value obtained from limited testing
Shear Strength	>= 0.172 MPa	>= 25.0 psi	Plate Shear, W Direction, min, preliminary value obtained from limited testing
	0.241 MPa	35.0 psi	Plate Shear, W Direction, typ, preliminary value obtained from limited testing
	>= 0.379 MPa	>= 55.0 psi	Plate Shear, L Direction, min, preliminary value obtained from limited testing
	0.483 MPa	70.0 psi	Plate Shear, L Direction, typ, preliminary value obtained from

Mechanical Properties	Metric	English	limited testing Comments
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