

Hexcel® HexWeb® HRH-310 - 1/8 - 1.8 Aramid Fiber/Polyimide Resin Honeycomb

Category : Other Engineering Material , Composite Fibers , Polymer , Thermoset , Aramid , Polyimide, TS

Material Notes:

Designation: Material-Cell Size-DensityHexWeb® HRH-310 is manufactured from aramid fiber sheets. A thermosetting adhesive is used to bond these sheets at the nodes, and after expanding to the hexagonal configuration, the block is dipped in polyimide resin. After curing the resin, slices are cut to the desired thickness. Using this process, a wide range of cell sizes, paper thicknesses, and densities can be produced. An OX-Core® configuration featuring enhanced formability is available upon special request.**Features:** Outstanding dielectric and loss tangent properties; Small cell sizes at low densities; Relatively damage resistant; Formability; Good bonding surfaces; Good thermal and electrical insulator.**Applications:** Outstanding results have been reported with the use of HexWeb® HRH-310 in a sandwich structure as both a strip antenna and a radome. Although a polyimide resin is used, HexWeb® HRH-310 is not recommended for high-temperature applications. The polyimide resin is used for electrical reasons only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-310-18-18-Aramid-FiberPolyimide-Resin-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0288 g/cc	0.00104 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 0.359 MPa	>= 52.0 psi	Bare, minimum individual
	>= 0.379 MPa	>= 55.0 psi	Bare, minimum avg
Shear Modulus	>= 0.00689 GPa	>= 1.00 ksi	Plate Shear, W Direction, minimum individual
	>= 0.00758 GPa	>= 1.10 ksi	Plate Shear, w Direction, minimum avg.
	>= 0.0207 GPa	>= 3.00 ksi	Plate Shear, L Direction, minimum individual
Shear Strength	>= 0.0228 GPa	>= 3.30 ksi	Plate Shear, L Direction, minimum avg.
	>= 0.159 MPa	>= 23.0 psi	Plate Shear, W Direction, minimum avg.
	>= 0.172 MPa	>= 25.0 psi	Plate Shear, W Direction, minimum avg.
	>= 0.345 MPa	>= 50.0 psi	Plate Shear, L Direction, minimum individual
	>= 0.359 MPa	>= 52.0 psi	Plate Shear, L Direction, minimum avg.

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