

Hexcel® HexWeb® HRH-78 - 3/16 - 3.0 Commercial Grade Nomex Honeycomb/Phenolic Resin

Category : Polymer , Thermoset , Phenolic

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HRH-78 is manufactured from commercial grade aramid paper sheets. A thermosetting adhesive is used to bond these sheets at the nodes, and after expanding, the block is dipped in a phenolic 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 request.**Features:** High strength at low densities; Small cell sizes at low densities; Damage resistant under normal shop use; Formable; Flame resistant; Good bonding surfaces; Good thermal and electrical insulator.**Applications:** HexWeb® HRH-78 was developed by Hexcel to offer most of the characteristics of HexWeb® HRH-10 for exclusive use in non-aerospace applications, such as pleasure boats, skis, surfboards, ground antennas, and navy joiner panels.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-78-316-30-Commercial-Grade-Nomex-HoneycombPhenolic-Resin.php

Physical Properties	Metric	English	Comments
Density	0.0481 g/cc	0.00174 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	1.86 MPa	270 psi	Bare
	2.28 MPa	330 psi	Stabilized
Compressive Modulus	0.125 GPa	18.2 ksi	Stabilized, preliminary value obtained from limited testing
Shear Modulus	0.0241 GPa	3.50 ksi	Plate Shear, W Direction, preliminary value obtained from limited testing
	0.0317 GPa	4.60 ksi	Plate Shear, L Direction, preliminary value obtained from limited testing
Shear Strength	0.558 MPa	81.0 psi	Plate Shear, W Direction
	0.855 MPa	124 psi	Plate Shear, L Direction

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