

## Hexcel® HexWeb® HRH-10 - 1/8- 9.0 Aramid Fiber/Phenolic Resin Honeycomb

Category : Other Engineering Material , Composite Core Material , 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-10-18-90-Aramid-FiberPhenolic-Resin-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-10-18-90-Aramid-FiberPhenolic-Resin-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.144 g/cc	0.00521 lb/in³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 10.51 MPa	>= 1525 psi	Bare, min
	>= 11.0 MPa	>= 1600 psi	Stabilized, min
	13.8 MPa	2000 psi	Bare, typ
	14.5 MPa	2100 psi	Stabilized, typ
Compressive Modulus	0.621 GPa	90.0 ksi	Stabilized, typ
Shear Modulus	0.0758 GPa	11.0 ksi	Plate Shear, W Direction, typ
	0.121 GPa	17.5 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.72 MPa	>= 250 psi	Plate Shear, W Direction, min
	2.07 MPa	300 psi	Plate Shear, W Direction, typ
	>= 2.93 MPa	>= 425 psi	Plate Shear, L Direction, min
	3.55 MPa	515 psi	Plate Shear, L Direction, typ

## Contact Songhan Plastic Technology Co.,Ltd.

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