

## Hexcel® HexWeb® HRH-10/OX - 3/16 - 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-10OX-316-40-Aramid-FiberPhenolic-Resin-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-10OX-316-40-Aramid-FiberPhenolic-Resin-Honeycomb.php)

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

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.45 MPa	>= 500 psi	Bare, min
	>= 3.79 MPa	>= 550 psi	Stabilized, min
	4.14 MPa	600 psi	Bare, typ
	4.48 MPa	650 psi	Stabilized, typ
Compressive Modulus	0.179 GPa	26.0 ksi	Stabilized, typ
Shear Modulus	0.0317 GPa	4.60 ksi	Plate Shear, L Direction, typ
	0.0579 GPa	8.40 ksi	Plate Shear, W Direction, typ
Shear Strength	>= 0.724 MPa	>= 105 psi	Plate Shear, L Direction, min
	>= 0.896 MPa	>= 130 psi	Plate Shear, W Direction, min
	0.896 MPa	130 psi	Plate Shear, L Direction, typ
	1.03 MPa	150 psi	Plate Shear, W Direction, typ

## Contact Songhan Plastic Technology Co.,Ltd.

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