

## Hexcel® HexWeb® HRH-78 - 1/8 - 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-78-18-30-Commercial-Grade-Nomex-HoneycombPhenolic-Resin.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-78-18-30-Commercial-Grade-Nomex-HoneycombPhenolic-Resin.php)

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

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	1.93 MPa	280 psi	Bare
	2.17 MPa	315 psi	Stabilized
Compressive Modulus	0.128 GPa	18.5 ksi	Stabilized, preliminary value obtained from limited testing
Shear Modulus	0.0214 GPa	3.10 ksi	Plate Shear, W Direction, preliminary value obtained from limited testing
	0.0365 GPa	5.30 ksi	Plate Shear, L Direction, preliminary value obtained from limited testing
Shear Strength	0.621 MPa	90.0 psi	Plate Shear, W Direction
	1.10 MPa	160 psi	Plate Shear, L Direction

## Contact Songhan Plastic Technology Co.,Ltd.

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