

## Hexcel® HexWeb® HRP - 1/4 - 6.5 Fiberglass/Phenolic Honeycomb

Category : Ceramic , Glass , Glass Fiber , Other Engineering Material , Composite Core Material , Composite Fibers , Polymer , Thermoset , Phenolic

### Material Notes:

**Designation:** Material-Cell Size (inches)-DensityHexWeb® HRP is a glass fabric reinforced honeycomb in which a heat-resistant phenolic resin is used both for initial and final impregnations. This product was developed for use at service temperatures up to 350°F. However, it is also well suited for short exposures at high temperatures. The HexWeb® HRP-series honeycomb is available in the standard hexagonal configuration, as well as in the two formale geometries - OX-Core® and Flex-Core®.**Features:** High strength up to 350°F; Good insulation and dielectric properties; Good bonding surface; Readily heat formed.**Applications:** HexWeb® HRP has proven to be an excellent core material for radomes, aircraft structural parts and fairings, heat shields, and other assemblies that see elevated temperature service.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexWeb-HRP-14-65-FiberglassPhenolic-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRP-14-65-FiberglassPhenolic-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.104 g/cc	0.00376 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 5.52 MPa	>= 800 psi	Bare, min
	>= 6.34 MPa	>= 920 psi	Stabilized, min
	7.067 MPa	1025 psi	Bare, typ
	8.14 MPa	1180 psi	Stabilized, typ
Compressive Modulus	0.827 GPa	120 ksi	Stabilized, typ
Shear Modulus	0.0896 GPa	13.0 ksi	Plate Shear, W Direction, typ
	0.159 GPa	23.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.79 MPa	>= 260 psi	Plate Shear, W Direction, min
	2.28 MPa	330 psi	Plate Shear, W Direction, typ
	>= 3.10 MPa	>= 450 psi	Plate Shear, L Direction, min
	4.00 MPa	580 psi	Plate Shear, L Direction, typ

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	350 °F	High strength retained

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