

## Hexcel® HexWeb® HRP/OX - 3/8 - 3.2 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-HRPOX-38-32-FiberglassPhenolic-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRPOX-38-32-FiberglassPhenolic-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.0513 g/cc	0.00185 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.79 MPa	>= 260 psi	Bare, min
	>= 2.07 MPa	>= 300 psi	Stabilized, min
	2.34 MPa	340 psi	Bare, typ
	2.69 MPa	390 psi	Stabilized, typ
Compressive Modulus	0.221 GPa	32.0 ksi	Stabilized, typ
Shear Modulus	0.0310 GPa	4.50 ksi	Plate Shear, L Direction, typ
	0.0621 GPa	9.00 ksi	Plate Shear, W Direction, typ
Shear Strength	>= 0.758 MPa	>= 110 psi	Plate Shear, L Direction, min
	>= 0.827 MPa	>= 120 psi	Plate Shear, W Direction, min
	0.965 MPa	140 psi	Plate Shear, L Direction, typ
	1.03 MPa	150 psi	Plate Shear, W Direction, typ

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

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