

## Hexcel® HexWeb® HRP/OX - 1/4 - 5.5 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-HRPOX-14-55-FiberglassPhenolic-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRPOX-14-55-FiberglassPhenolic-Honeycomb.php)

Physical Properties	Metric	English	Comments
Density	0.0881 g/cc	0.00318 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 4.00 MPa	>= 580 psi	Bare, min
	>= 4.62 MPa	>= 670 psi	Stabilized, min
	5.34 MPa	775 psi	Bare, typ
	6.14 MPa	890 psi	Stabilized, typ
Compressive Modulus	0.448 GPa	65.0 ksi	Stabilized, typ
Shear Modulus	0.0689 GPa	10.0 ksi	Plate Shear, L Direction, typ
	0.124 GPa	18.0 ksi	Plate Shear, W Direction, typ
Shear Strength	>= 1.59 MPa	>= 230 psi	Plate Shear, L Direction, min
	>= 1.76 MPa	>= 255 psi	Plate Shear, W Direction, min
	2.07 MPa	300 psi	Plate Shear, L Direction, typ
	2.28 MPa	330 psi	Plate Shear, W Direction, typ

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

**Contact Songhan Plastic Technology Co.,Ltd.**

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