

Hexcel® HexWeb® HRP - 3/16 - 4.0 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-316-40-FiberglassPhenolic-Honeycomb.php

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

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 2.76 MPa	>= 400 psi	Bare, min
	>= 3.31 MPa	>= 480 psi	Stabilized, min
	3.31 MPa	480 psi	Bare, typ
	4.07 MPa	590 psi	Stabilized, typ
Compressive Modulus	0.393 GPa	57.0 ksi	Stabilized, typ
Shear Modulus	0.0448 GPa	6.50 ksi	Plate Shear, W Direction, typ
	0.0896 GPa	13.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.896 MPa	>= 130 psi	Plate Shear, W Direction, min
	1.10 MPa	160 psi	Plate Shear, W Direction, typ
	>= 1.45 MPa	>= 210 psi	Plate Shear, L Direction, min
	2.14 MPa	310 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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