

Hexcel® HexWeb® HRP - 3/16 - 12.0 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-316-120-FiberglassPhenolic-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.192 g/cc	0.00694 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 12.4 MPa	>= 1800 psi	Bare, min
	>= 13.5 MPa	>= 1960 psi	Stabilized, min
	15.9 MPa	2300 psi	Bare, typ
	17.4 MPa	2520 psi	Stabilized, typ
Compressive Modulus	1.79 GPa	260 ksi	Stabilized, typ
Shear Modulus	0.193 GPa	28.0 ksi	Plate Shear, W Direction, typ
	0.303 GPa	44.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 3.62 MPa	>= 525 psi	Plate Shear, W Direction, min
	4.65 MPa	675 psi	Plate Shear, W Direction, typ
	>= 5.62 MPa	>= 815 psi	Plate Shear, L Direction, min
	6.79 MPa	985 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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