

Hexcel® HexWeb® HRP - 3/16 - 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-HRP-316-55-FiberglassPhenolic-Honeycomb.php

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

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 4.27 MPa	>= 620 psi	Bare, min
	>= 5.17 MPa	>= 750 psi	Stabilized, min
Compressive Modulus	5.52 MPa	800 psi	Bare, typ
	6.21 MPa	900 psi	Stabilized, typ
Compressive Modulus	0.655 GPa	95.0 ksi	Stabilized, typ
Shear Modulus	0.0758 GPa	11.0 ksi	Plate Shear, W Direction, typ
	0.131 GPa	19.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.38 MPa	>= 200 psi	Plate Shear, W Direction, min
	1.83 MPa	265 psi	Plate Shear, W Direction, typ
	>= 2.69 MPa	>= 390 psi	Plate Shear, L Direction, min
	3.38 MPa	490 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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