

Hexcel® HexWeb® HRP - 1/4 - 3.5 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-14-35-FiberglassPhenolic-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0561 g/cc	0.00203 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 1.93 MPa	>= 280 psi	Bare, min
	2.69 MPa	390 psi	Bare, typ
	>= 2.76 MPa	>= 400 psi	Stabilized, min
	3.14 MPa	455 psi	Stabilized, typ
Compressive Modulus	0.317 GPa	46.0 ksi	Stabilized, typ
Shear Modulus	0.0345 GPa	5.00 ksi	Plate Shear, W Direction, typ
	0.0689 GPa	10.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.689 MPa	>= 100 psi	Plate Shear, W Direction, min
	0.862 MPa	125 psi	Plate Shear, W Direction, typ
	>= 1.24 MPa	>= 180 psi	Plate Shear, L Direction, min
	1.79 MPa	260 psi	Plate Shear, L Direction, typ

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China