

Hexcel® HexWeb® HRH-327 - 3/16 - 5.0 Fiberglass Reinforced Polyimide Honeycomb

Category : Other Engineering Material , Composite Fibers , Polymer , Thermoset , Polyimide, TS

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HRH-327 is a glass-fabric, bias weave reinforced plastic honeycomb that incorporates a polyimide resin system for the node adhesive as well as both the initial and final web impregnations. This material has been developed for extended service temperatures up to 500°F with short-term capabilities up to 700°F. Unless other specified, material will have standard postcure. Features: High-strength retention up to 500°F continuous service; 700°F short and intermittent term exposures; All polyimide resin and adhesive system; Good dielectric properties; Good insulative properties; Compatible with Hexcel polyimide adhesive, foam, and prepreg. Applications: A high-temperature nonmetallic honeycomb for use in sandwich structures that require good electrical properties or that see service temperatures in the range of 350°F-500°F. Applications include sandwich structures for Mach 2 and Mach 3 aircraft, high-energy radomes, structural and acoustical engine inlets and liners.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-327-316-50-Fiberglass-Reinforced-Polyimide-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0801 g/cc	0.00289 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.31 MPa	>= 480 psi	Stabilized, min, preliminary value obtained at .500 inch thickness
	4.14 MPa	600 psi	Stabilized, typ, preliminary value obtained at .500 inch thickness
Compressive Modulus	0.469 GPa	68.0 ksi	Stabilized, typ, preliminary value obtained at .500 inch thickness
Shear Modulus	0.0827 GPa	12.0 ksi	Plate Shear, W Direction, typ, preliminary value obtained at .500 inch thickness
	0.255 GPa	37.0 ksi	Plate Shear, L Direction, typ, preliminary value obtained at .500 inch thickness
Shear Strength	>= 0.931 MPa	>= 135 psi	Plate Shear, W Direction, min, preliminary value obtained at .500 inch thickness
	1.24 MPa	180 psi	Plate Shear, W Direction, typ, preliminary value obtained at .500 inch thickness
	>= 1.93 MPa	>= 280 psi	Plate Shear, L Direction, min, preliminary value obtained at .500 inch thickness
	2.55 MPa	370 psi	Plate Shear, L Direction, typ, preliminary value obtained at .500 inch thickness

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	Extended
	371 °C	700 °F	Short Term

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