

Hexcel® HexWeb® HRH-327 - 1/8 - 5.5 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-327-18-55-Fiberglass-Reinforced-Polyimide-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	>= 4.14 MPa	>= 600 psi	Stabilized, min, preliminary value obtained at .500 inch thickness
	5.45 MPa	790 psi	Stabilized, typ, preliminary value obtained at .500 inch thickness
Compressive Modulus	0.552 GPa	80.0 ksi	Stabilized, typ, preliminary value obtained at .500 inch thickness
Shear Modulus	0.100 GPa	14.5 ksi	Plate Shear, W Direction, typ, preliminary value obtained at .500 inch thickness
	0.207 GPa	30.0 ksi	Plate Shear, L Direction, typ, preliminary value obtained at .500 inch thickness
Shear Strength	>= 1.21 MPa	>= 175 psi	Plate Shear, W Direction, min, preliminary value obtained at .500 inch thickness
	1.69 MPa	245 psi	Plate Shear, W Direction, typ, preliminary value obtained at .500 inch thickness
	>= 2.07 MPa	>= 300 psi	Plate Shear, L Direction, min, preliminary value obtained at .500 inch thickness
	3.21 MPa	465 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

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