

Hexcel® HexWeb® HRH-327 - 3/8 - 4.0 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-327-38-40-Fiberglass-Reinforced-Polyimide-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0641 g/cc	0.00231 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 2.24 MPa	>= 325 psi	Stabilized, min
	3.03 MPa	440 psi	Stabilized, typ
Compressive Modulus	0.345 GPa	50.0 ksi	Stabilized, typ
Shear Modulus	0.0827 GPa	12.0 ksi	Plate Shear, W Direction, typ
	0.200 GPa	29.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 0.689 MPa	>= 100 psi	Plate Shear, W Direction, min
	1.03 MPa	150 psi	Plate Shear, W Direction, typ
	>= 1.34 MPa	>= 195 psi	Plate Shear, L Direction, min
	1.93 MPa	280 psi	Plate Shear, L Direction, typ

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

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