

## Hexcel® HexWeb® HRH-327 - 3/8 - 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-327-38-55-Fiberglass-Reinforced-Polyimide-Honeycomb.php](http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-327-38-55-Fiberglass-Reinforced-Polyimide-Honeycomb.php)

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

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	>= 3.72 MPa	>= 540 psi	Stabilized, min
	4.69 MPa	680 psi	Stabilized, typ
Compressive Modulus	0.538 GPa	78.0 ksi	Stabilized, typ
Shear Modulus	0.0896 GPa	13.0 ksi	Plate Shear, W Direction, typ
	0.283 GPa	41.0 ksi	Plate Shear, L Direction, typ
Shear Strength	>= 1.10 MPa	>= 160 psi	Plate Shear, W Direction, min
	1.45 MPa	210 psi	Plate Shear, W Direction, typ
	>= 2.07 MPa	>= 300 psi	Plate Shear, L Direction, min
	2.90 MPa	420 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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