

Hexcel® HexWeb® HRH-327 - 3/16 - 4.5 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-327-316-45-Fiberglass-Reinforced-Polyimide-Honeycomb.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|----------------------------|----------|
| Density | 0.0721 g/cc | 0.00260 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------|------------|-------------------------------|
| Compressive Yield Strength | >= 2.76 MPa | >= 400 psi | Stabilized, min |
| | 3.59 MPa | 520 psi | Stabilized, typ |
| Compressive Modulus | 0.400 GPa | 58.0 ksi | Stabilized, typ |
| Shear Modulus | 0.0758 GPa | 11.0 ksi | Plate Shear, W Direction, typ |
| | 0.228 GPa | 33.0 ksi | Plate Shear, L Direction, typ |
| Shear Strength | >= 0.758 MPa | >= 110 psi | Plate Shear, W Direction, min |
| | 1.03 MPa | 150 psi | Plate Shear, W Direction, typ |
| | >= 1.52 MPa | >= 220 psi | Plate Shear, L Direction, min |
| | 2.21 MPa | 320 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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