

Hexcel® HexWeb® HRP - 3/16 - 7.0 Fiberglass/Phenolic Honeycomb

Category : Ceramic , Glass , Glass Fiber , Other Engineering Material , Composite Core Material , Composite Fibers , Polymer , Thermoset , Phenolic

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HRP is a glass fabric reinforced honeycomb in which a heat-resistant phenolic resin is used both for initial and final impregnations. This product was developed for use at service temperatures up to 350°F. However, it is also well suited for short exposures at high temperatures. The HexWeb® HRP-series honeycomb is available in the standard hexagonal configuration, as well as in the two formale geometries - OX-Core® and Flex-Core®. **Features:** High strength up to 350°F; Good insulation and dielectric properties; Good bonding surface; Readily heat formed. **Applications:** HexWeb® HRP has proven to be an excellent core material for radomes, aircraft structural parts and fairings, heat shields, and other assemblies that see elevated temperature service.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRP-316-70-FiberglassPhenolic-Honeycomb.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|----------------------------|----------|
| Density | 0.112 g/cc | 0.00405 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------|-------------|-------------------------------|
| Compressive Yield Strength | >= 5.52 MPa | >= 800 psi | Bare, min |
| | >= 7.17 MPa | >= 1040 psi | Stabilized, min |
| | 7.93 MPa | 1150 psi | Bare, typ |
| | 8.96 MPa | 1300 psi | Stabilized, typ |
| Compressive Modulus | 0.938 GPa | 136 ksi | Stabilized, typ |
| Shear Modulus | 0.0965 GPa | 14.0 ksi | Plate Shear, W Direction, typ |
| | 0.207 GPa | 30.0 ksi | Plate Shear, L Direction, typ |
| Shear Strength | >= 2.00 MPa | >= 290 psi | Plate Shear, W Direction, min |
| | 2.55 MPa | 370 psi | Plate Shear, W Direction, typ |
| | >= 3.52 MPa | >= 510 psi | Plate Shear, L Direction, min |
| | 4.48 MPa | 650 psi | Plate Shear, L Direction, typ |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------|---------|------------------------|
| Maximum Service Temperature, Air | 177 °C | 350 °F | High strength retained |

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