

Hexcel® HexWeb® HRH-10 - 3/8 - 2.0 Aramid Fiber/Phenolic Resin Honeycomb

Category : Other Engineering Material , Composite Core Material , Composite Fibers , Polymer , Thermoset , Aramid , Phenolic

Material Notes:

Designation: Material-Cell Size-Density.Hexweb® HRH-10 is manufactured from NOMEX® aramid fiber sheets. A thermosetting adhesive is used to bond these sheets at the nodes, and after expanding to the hexagonal or OX-Core® configuration, the block is dipped in phenolic resin. After curing the resin, slices are cut to the desired thickness. For special applications, such as air directionalizing, HexWeb® HRH-10 can be provided without the phenolic resin. Using this process, a wide range of cell sizes, paper thicknesses, and densities can be produced.Information provided by HexCel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-10-38-20-Aramid-FiberPhenolic-Resin-Honeycomb.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|----------------------------|----------|
| Density | 0.0320 g/cc | 0.00116 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------|-------------|-------------------------------|
| Compressive Yield Strength | >= 0.793 MPa | >= 115 psi | Bare, min |
| | >= 0.862 MPa | >= 125 psi | Stabilized, min |
| | 0.965 MPa | 140 psi | Bare, typ |
| | 1.07 MPa | 155 psi | Stabilized, typ |
| Compressive Modulus | 0.0758 GPa | 11.0 ksi | Stabilized, typ |
| Shear Modulus | 0.0165 GPa | 2.40 ksi | Plate Shear, W Direction, typ |
| | 0.0255 GPa | 3.70 ksi | Plate Shear, L Direction, typ |
| Shear Strength | >= 0.248 MPa | >= 36.0 psi | Plate Shear, W Direction, min |
| | 0.379 MPa | 55.0 psi | Plate Shear, W Direction, typ |
| | >= 0.496 MPa | >= 72.0 psi | Plate Shear, L Direction, min |
| | 0.621 MPa | 90.0 psi | Plate Shear, L Direction, typ |

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