

Hexcel® HexWeb® HRH-78 - 3/8 - 1.5 Commercial Grade Nomex Honeycomb/Phenolic Resin

Category : Polymer , Thermoset , Phenolic

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HRH-78 is manufactured from commercial grade aramid paper sheets. A thermosetting adhesive is used to bond these sheets at the nodes, and after expanding, the block is dipped in a phenolic resin. After curing the resin, slices are cut to the desired thickness. Using this process, a wide range of cell sizes, paper thicknesses, and densities can be produced. An OX-Core® configuration featuring enhanced formability is available upon request.**Features:** High strength at low densities; Small cell sizes at low densities; Damage resistant under normal shop use; Formable; Flame resistant; Good bonding surfaces; Good thermal and electrical insulator.**Applications:** HexWeb® HRH-78 was developed by Hexcel to offer most of the characteristics of HexWeb® HRH-10 for exclusive use in non-aerospace applications, such as pleasure boats, skis, surfboards, ground antennas, and navy joiner panels.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-78-38-15-Commercial-Grade-Nomex-HoneycombPhenolic-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|-----------------------------|----------|
| Density | 0.0240 g/cc | 0.000868 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------|---|
| Compressive Yield Strength | 0.586 MPa | 85.0 psi | Bare |
| | 0.655 MPa | 95.0 psi | Stabilized |
| Compressive Modulus | 0.0414 GPa | 6.00 ksi | Stabilized, preliminary value obtained from limited testing |
| Shear Modulus | 0.0103 GPa | 1.50 ksi | Plate Shear, W Direction, preliminary value obtained from limited testing |
| | 0.0172 GPa | 2.50 ksi | Plate Shear, L Direction, preliminary value obtained from limited testing |
| Shear Strength | 0.228 MPa | 33.0 psi | Plate Shear, W Direction |
| | 0.414 MPa | 60.0 psi | Plate Shear, L Direction |

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