

Hexcel® HexWeb® HRH-78 - 3/16 - 6.0 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-78-316-60-Commercial-Grade-Nomex-HoneycombPhenolic-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|----------------------------|----------|
| Density | 0.0961 g/cc | 0.00347 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------|---|
| Compressive Yield Strength | 7.067 MPa | 1025 psi | Bare |
| | 7.58 MPa | 1100 psi | Stabilized |
| Shear Modulus | 0.0379 GPa | 5.50 ksi | Plate Shear, W Direction, preliminary value obtained from limited testing |
| | 0.0896 GPa | 13.0 ksi | Plate Shear, L Direction, preliminary value obtained from limited testing |
| Shear Strength | 1.62 MPa | 235 psi | Plate Shear, W Direction |
| | 3.10 MPa | 450 psi | Plate Shear, L Direction |

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