

Hexcel® HexWeb® HDC - 3/16 - 16.0 (R2) Heavy Density Core

Category : Other Engineering Material , Composite Core Material , Composite Fibers

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HDC is a fabric reinforced honeycomb, typically made from either fiberglass or carbon prepreg. A thermosetting node adhesive is used with either a thermoplastic or thermoset resin for the web impregnations. The product was developed for use in temperatures up to 500°F. Depending on the constituent resin system, the product may be suitable for short exposures at higher temperatures.**Features:** High compression strength non-metallic honeycomb available; Formability tailored to customer's needs; Low-moisture pickup; High thermal stability, very low coefficient of thermal expansion; Proven history in service; High corrosion resistance.**Applications:** HexWeb® HDC is used in sandwich structure as a replacement for potting compound in hard points or where extremely high compressive or shear strength is required. Using HexWeb® HDC in lieu of potting compound reduces process steps, improves part quality and reduces weight in the overall structure.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HDC-316-160-R2-Heavy-Density-Core.php

Physical Properties	Metric	English	Comments
Density	0.256 g/cc	0.00926 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	22.8 MPa	3300 psi	Stabilized
Shear Strength	5.17 MPa	750 psi	Long Beam Shear, W Direction
	13.1 MPa	1900 psi	Long Beam Shear, L Direction

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