

Hexcel® HexWeb® HRH-36/OX - 3/16 - 3.0 Para-Aramid/Phenolic Core

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

Material Notes:

Designation: Material-Cell Size (inches)-DensityHexWeb® HRH-36 is manufactured using KEVLAR® paper. The standard resin system is phenolic.**Features:** Mechanical properties equivalent to KOREX®; Low moisture pickup; Excellent thermal stability; Smooth cell wall finish.**Applications:** HexWeb® HRH-36 is a high performance non-metallic core, available in a wide range of densities, suitable for most composite sandwich applications. It can be readily heat formed to help produce complex components and offers similar mechanical properties to KOREX® core as well as comparable moisture pickup. In addition, HexWeb® HRH-36 offers a weight reduction over higher density NOMEX® honeycomb cores.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-36OX-316-30-Para-AramidPhenolic-Core.php

Physical Properties	Metric	English	Comments
Density	0.0481 g/cc	0.00174 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	1.93 MPa	280 psi	Bare
	2.07 MPa	300 psi	Stabilized
Shear Modulus	0.0462 GPa	6.70 ksi	Plate Shear, L Direction
	0.0834 GPa	12.1 ksi	Plate Shear, W Direction
Shear Strength	0.896 MPa	130 psi	Plate Shear, L Direction
	1.07 MPa	155 psi	Plate Shear, W Direction

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