

Hexcel® HexWeb® HRH-36 - 3/16 - 4.5 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-36-316-45-Para-AramidPhenolic-Core.php

Physical Properties	Metric	English	Comments
Density	0.0721 g/cc	0.00260 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	4.14 MPa	600 psi	Bare
	4.48 MPa	650 psi	Stabilized
Shear Modulus	0.0689 GPa	10.0 ksi	Plate Shear, W Direction
	0.159 GPa	23.1 ksi	Plate Shear, L Direction
Shear Strength	1.52 MPa	220 psi	Plate Shear, W Direction
	2.76 MPa	400 psi	Plate Shear, L Direction

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