

Hexcel® HexWeb® HRH-36® Flex-Core® HRH-36 - F50 - 3.5 Aramid Honeycomb

Category : Polymer , Thermoset , Aramid , Phenolic

Material Notes:

Designation: Material-Cell Size (cells per lineal foot in W direction)-Density (lb per cubic foot)HexWeb® HRH-36® Flex-Core® aramid paper is reinforced with a high temperature phenolic resin. This product provides good retention of strength for temperatures up to 350°F.Features: Specifically designed for formability; Retains mechanical properties in the curved condition; Offers cost savings for curved panels.Applications: The HexWeb® HRH-36® Flex-Core® cell configuration, as opposed to the standard hexagonal cell honeycomb, provides for exceptional formability into compound curvatures with reduced anticlastic curvature and controlled buckling of the cell walls. When formed into tight radii, HexWeb® Flex-Core® provides higher shear strengths than comparable hexagonal cores of equivalent density. HexWeb® Flex-Core® applications exist wherever extreme curvature dictates a flexible cell geometry, e.g. radomes, ducts, leading edges of wings and stabilizers. HexWeb® HRH-36® Flex-Core® offers a weight reduction over higher density NOMEX® cores.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-36-Flex-Core-HRH-36-F50-35-Aramid-Honeycomb.php

Physical Properties	Metric	English	Comments
Density	0.0561 g/cc	0.00203 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	3.06 MPa	444 psi	Stabilized, typical value
Shear Modulus	0.0490 GPa	7.10 ksi	Plate Shear, W Direction, typical value
	0.0951 GPa	13.8 ksi	Plate Shear, L Direction, typical value
Shear Strength	0.883 MPa	128 psi	Plate Shear, W Direction, typical value
	1.63 MPa	236 psi	Plate Shear, L Direction, typical value

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