Hexcel® HexWeb® HRH-10/F35 - 4.5 Nonmetallic Flex-Core Honeycomb

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

Material Notes:

Designation: Material/Cell Size (cells per lineal foot in W direction)-DensityHexcel manufactures two types of nonmetallic reinforced plastic HexWeb® Flex-Core®: HexWeb® HRP - Fiberglasses cloth reinforced with a high temperature phenolic resin. This product provides good retention of strength for temperatures up to 350°F.HexWeb® HRH-10 - NOMEX® aramid paper reinforced with a high temperature phenolic resin. This product provides good retention of strength for temperatures up to 300°F.Features: Specifically designed for formability; Retains mechanical properties in the curved condition; Offers cost savings for curved panels.Applications: The HexWeb® Nonmetallic 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 cell walls. When formed into tight radii, HexWeb® Nonmetallic Flex-Core® provides higher shear strengths than comparable hexagonal cores of equivalent density. HexWeb® Nonmetallic Flex-Core® applications exist wherever extreme curvature dictates a flexible cell geometry, e.g. radomes, ducts, leading edges of wings and stabilizers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexWeb-HRH-10F35-45-Nonmetallic-Flex-Core-Honeycomb.php

Metric	English	Comments	
0.0721 g/cc	0.00260 lb/in ³		
Metric	English	Comments	
>= 3.03 MPa	>= 440 psi	Bare, min	
>= 3.31 MPa	>= 480 psi	Stabilized, min	
4.00 MPa	580 psi	Bare, typ	
4.27 MPa	620 psi	Stabilized, typ	
0.0296 GPa	4.30 ksi	Plate Shear, W Direction, typ	
0.0621 GPa	9.00 ksi	Plate Shear, L Direction, typ	
>= 1.03 MPa	>= 150 psi	Plate Shear, W Direction, min	
1.31 MPa	190 psi	Plate Shear, W Direction, typ	
>= 1.59 MPa	>= 230 psi	Plate Shear, L Direction, min	
2.07 MPa	300 psi	Plate Shear, L Direction, typ	
	0.0721 g/cc Metric >= 3.03 MPa >= 3.31 MPa 4.00 MPa 4.00 MPa 4.27 MPa 0.0296 GPa 0.0621 GPa >= 1.03 MPa 1.31 MPa >= 1.59 MPa	0.0721 g/cc 0.00260 lb/in³ Metric English >= 3.03 MPa >= 440 psi >= 3.31 MPa >= 480 psi 4.00 MPa 580 psi 4.27 MPa 620 psi 0.0621 GPa 4.30 ksi >= 1.03 MPa >= 150 psi 1.31 MPa 190 psi >= 1.59 MPa >= 230 psi	

Thermal Properties	Metric	English	Comments	
Maximum Service Temperature, Air	149 °C	300 °F		

Contact Songhan Plastic Technology Co.,Ltd.



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