Hexcel® HexWeb® HRP/F35 - 3.5 Nonmetallic Flex-Core Honeycomb

Category : Ceramic , Glass , Glass Fiber , Other Engineering Material , Composite Fibers , Polymer , Thermoset , 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-HRPF35-35-Nonmetallic-Flex-Core-Honeycomb.php

Metric	English	Comments	
0.0561 g/cc	0.00203 lb/in³		
Metric	English	Comments	
>= 1.69 MPa	>= 245 psi	Bare, min	
>= 2.07 MPa	>= 300 psi	Stabilized, min	
2.21 MPa	320 psi	Bare, typ	
2.76 MPa	400 psi	Stabilized, typ	
0.0689 GPa	10.0 ksi	Plate Shear, W Direction, typ	
0.103 GPa	15.0 ksi	Plate Shear, L Direction, typ	
>= 0.517 MPa	>= 75.0 psi	Plate Shear, W Direction, min	
0.724 MPa	105 psi	Plate Shear, W Direction, typ	
>= 0.965 MPa	>= 140 psi	Plate Shear, L Direction, min	
1.38 MPa	200 psi	Plate Shear, L Direction, typ	
	0.0561 g/cc Metric >= 1.69 MPa >= 2.07 MPa 2.21 MPa 2.21 MPa 2.76 MPa 0.0689 GPa 0.103 GPa >= 0.517 MPa 0.724 MPa >= 0.965 MPa	0.0561 g/cc 0.00203 lb/in³ Metric English >= 1.69 MPa >= 245 psi >= 2.07 MPa >= 300 psi 2.21 MPa 320 psi 2.76 MPa 400 psi 0.0689 GPa 10.0 ksi 0.103 GPa 15.0 ksi >= 0.517 MPa >= 75.0 psi 0.724 MPa 105 psi >= 0.965 MPa >= 140 psi	

Thermal Properties	Metric	English	Comments	
Maximum Service Temperature, Air	177 °C	350 °F		

Contact Songhan Plastic Technology Co.,Ltd.



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