



PRODUCT DATA SHEET

Gillcore® HF5035 Honeycomb Core

DESCRIPTION

Gillcore® HF5035 honeycomb core is a high performance non-metallic fiberglass honeycomb core. The honeycomb core is made of fiberglass fabric reinforced with heat resistant phenolic resin for moisture resistance and suitable for high temperature applications.

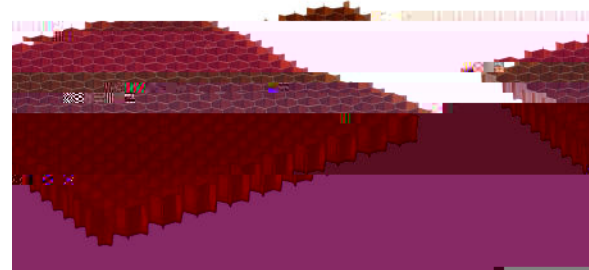
APPLICATIONS

Engine nacelles and interior aircraft parts where high temperature application up to 350°F (177°C).
Heat formability for complex and contour components.

FEATURES

- Good strength to weight ratio
- Corrosion resistant
- Fire resistant
- High toughness, shear strength and shear modulus
- Excellent thermal stability
- Good formability for curve forming

AVAILABILITY

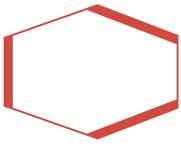


CONSTRUCTION

Reinforcement: Woven E-glass fiber cloth
Resin: Phenolic

SPECIFICATIONS

- AMS3715, Rev. D



PERFORMANCE PROPERTIES, TYPICAL

Properties	Test Method	Condition	Test at -75°F (-59°C)	Test at 75°F (24°C)	Test at 250°F (121°C)	Test at 350°F (177°C)
Sandwich Flatwise Tension, psi (MPa)	ASTM C297	Ambient	1,250 (8.62)	1,250 (8.62)	1,100 (7.58)	900 (6.21)
		Wet	---	900 (6.21)	550 (3.79)	450 (3.10)
Stabilized Compression Strength, psi (MPa)	ASTM C365	Ambient	857 (5.91)	790 (5.45)	600 (4.14)	450 (3.10)
		Wet	---	750 (5.17)	500 (3.45)	400 (2.76)
Stabilized Compression Modulus, ksi (GPa)	ASTM C365	Ambient	84 (0.581)	70 (0.483)	55 (0.379)	---
		Wet	---	70 (0.483)	55 (0.379)	---
Plate Shear Strength L-direction, psi (MPa)	ASTM C273	Ambient	450 (3.10)	440 (3.03)	340 (2.34)	190 (1.31)
		Wet	---	390 (2.69)	270 (1.86)	150 (1.03)
Plate Shear Modulus L-direction, ksi (GPa)	ASTM C273	Ambient	26 (0.179)	26 (0.179)	21 (0.145)	12 (0.083)
		Wet	---	25 (0.172)	15 (0.103)	7 (0.048)
Plate Shear Strength W-direction, psi (MPa)	ASTM C273	Ambient	270 (1.86)	250 (1.72)	200 (1.38)	140 (0.965)
		Wet	---	240 (1.65)	180 (1.24)	110 (0.758)
Plate Shear Modulus W-direction, ksi (GPa)	ASTM C273	Ambient	15 (0.103)	14 (0.097)	13 (0.090)	8 (0.055)
		Wet	---	14 (0.097)	9 (0.062)	5 (0.034)

(1) Wet Conditioning: 158 °F ± 9°F (70°C ± 5°C), 95 ± 5% Relative Humidity, 750 Hours (+ 48/-0 Hours)
 (2) Temperature tolerance for testing is ±5°F