



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

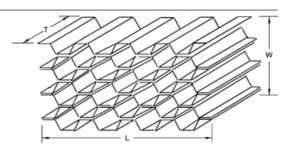
- · Good strength to weight ratio
- · Corrosion resistant
- · Fire resistant
- · High toughness, shear strength and shear modulus
- · Excellent thermal stability
- · Good formability for curve forming

AVAILABILITY

Hexagonal Shaped Core
L = Ribbon Dimension

W = Dimension normal to ribbon

T = Thickness dimension



Direction/Configuration	Hexagonal Core	Hexagonal Core			
	Ribbon dimension as block width	Ribbon dimension as block length			
L	Typical 48 inch (1,219 mm)	Maximum 96 inch (2,438 mm)			
(Ribbon dimension)	Maximum 65 inch (1,651 mm)				
W	Typical 96 inch (2,438 mm)	Maximum 48 inch (1,219 mm)			
(Dimension normal to ribbon)	Maximum 144 inch (3,658 mm)				
Thickness	23 inch (584.2 mm)				
Nominal cell size, in (cm)	0.375 ± 0.006 (0.952 ± 0.015)				
Nominal core density	4.50 pound per cubic foot (72.08 kilograms per cubic meter)				

Custom block sizes available upon request

CONSTRUCTION

Reinforcement: Woven E-glass fiber cloth
Resin: Phenolic

SPECIFICATIONS

· AMS3715, Rev. D

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HEALTH PRECAUTIONS

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available at https://www.thegillcorp.com/msds.php.

For industrial use only. Keep away from children. Additional information can be found at: www.thegillcorp.com. For sales and ordering information call 1-626-443-6094.

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)		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)		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)		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)		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)

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⁽²⁾ Temperature tolerance for testing is ±5°F