



Gordon Composites™ GC-70-ULS

Advanced Composites

Key Characteristics

Product Description

A continuous unidirectional "E" fiberglass combined with a 50/50 woven fiberglass inlay that has high strength and stiffness along the longitudinal (0) axis and provides cross strength (90 degrees to the longitudinal axis). GC-70-ULS is manufactured with a proprietary pulforming process in which all glass fibers are pretensioned and aligned during the impregnation and curing process.

General

Material Status	• Commercial: Active		
Regional Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 70% Filler by Weight		
Uses	• Industrial Applications	• Metal Replacement	• Springs
	• Marine Applications	• Sporting Goods	• Structural Parts
Appearance	• Black	• Brown	• Natural Color
	• Blue	• Grey	• Red
Forms	• Sheet ¹		
Processing Method	• Machining		

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.88 g/cm ³	1.88 g/cm ³	ASTM D1505
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³	6.00E+6 psi	41400 MPa	ASTM D3039
Tensile Strength ³	152000 psi	1050 MPa	ASTM D3039
Tensile Strain ³ (Break)	2.5 %	2.5 %	ASTM D3039
Flexural Modulus	6.00E+6 psi	41400 MPa	ASTM D790
Flexural Strength ⁴	210000 psi	1450 MPa	ASTM D790
Compressive Modulus ³	6.00E+6 psi	41400 MPa	ASTM D3410
Compressive Strength ³	119000 psi	820 MPa	ASTM D3410
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Glass Transition Temperature	250 °F	121 °C	ASTM D3418

Notes

¹ Width: .150" to 18.00"
 Thickness: .040" to .080"
 Length: 6" to 120"

² Typical values are not to be construed as specifications.

³ 0 degree orientation

⁴ Strength Values developed from ASTM D790 are dependent on thickness. As thickness increased flex strength decreased. The test data above is based on a test thickness of .060"

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