



## UD300 Unidirectional Carbon 300g/m<sup>2</sup> – 9oz/yd<sup>2</sup>

GCCF12KUNI300 is a unidirectional, high strength, non corrosive carbon fiber fabric oriented in the 0° direction. The fabric is field laminated with a resin system to create a carbon fiber reinforced polymer (CFRP) system to reinforce structures such as buildings, parking garages, tanks, pipes, bridges, stacks and piling including walls (poured and masonry), columns, beams, slabs and pile elements.

<b>Product ID:</b>	GCCF12KUNI300-12, 24
<b>Description:</b>	12K Carbon Warp Uni, 300g/m <sup>2</sup> nominal
<b>Raw Material:</b>	Warp - 12K Carbon Fiber Fill - Hot Melt Polyester
<b>Weave:</b>	Unidirectional
<b>Fiber Distribution:</b>	95% Warp / 5% Fill
<b>Weight:</b>	300 g/m <sup>2</sup> (±15g/m <sup>2</sup> ) 9 oz/yd <sup>2</sup> (± 0.5 oz/yd <sup>2</sup> )
<b>Std. Width:</b>	12, 24, 50 inch (±0.25 inch)
<b>Edge Type:</b>	Leno @ Selvedge
<b>Std. Roll Size:</b>	100 yards

### PROPERTIES

#### Carbon Fiber Properties (Lot Average)

	English	Metric
Tensile Strength	720 ksi	≥4963 MPa
Tensile Modulus	≥34 msi	≥234 GPa

#### Cured Laminate Properties

Tensile Strength (ASTM D3039)	203,000 psi	1400 MPa
Tensile Modulus (ASTM D3039)	13,700 ksi	95 GPa
Elongation at Break (ASTM D3039)		1.3%
Thickness (ASTM D3039)	.02 in	0.51 mm

"Carbon Fiber Properties" are confirmed by Certificate from the fiber manufacturer. "Cured Laminate Properties" are typical. The properties do not constitute any warranty or guarantee. All values are for material selection purposes only. The customer must determine suitability of any information or material for any contemplated use and assumes all risk. This information is for use by technically skilled persons at their own discretion and risk.

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