



PW610 Plain Weave Carbon 610g/m² – 18oz/yd²

GCCF12KPW610 is a plain weave, high strength, non corrosive carbon fiber fabric oriented in the 0° and 90° directions. 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.

Product ID:	GCCF12KPW610-12, 24, 50
Description:	12-24K Carbon Plain Weave, 610g/m ² nominal
Raw Material:	Warp - 12-24K Carbon Fiber Fill - 12-24K Carbon Fiber
Weave:	Plain Weave
Fiber Distribution:	Balanced
Weight:	610 g/m ² (±30g/m ²) 18 oz/yd ² (± 1 oz/yd ²)
Std. Width:	12, 24, 50 inch (±0.25 inch)
Edge Type:	Leno @ Selvedge
Std. Roll Size:	100 linear yard

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)	115,000 psi	793 MPa
Tensile Modulus (ASTM D3039)	7,000 ksi	48 GPa
Elongation at Break (ASTM D3039)		1.3%
Thickness (ASTM D3039)	.037 in	0.94 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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