



TW670 Twill Weave Carbon 670g/m² – 20oz/yd²

GCCF12KTW670 is a twill weave, high strength, non corrosive carbon fiber fabric. 2x2 Twill is used in many cosmetic and decorative applications, but also has great functionality, it has both moderate formability and moderate stability. If you follow a tow strand in a twill weave, it passes over a set number of tows and then under the same number of tows. The longer distance between tow interlaces means fewer crimps compared to a plain weave and less potential stress concentrations.

Product ID:	GCCF12KTW670-50
Description:	12K Carbon Fabric, Twill Weave, 670 gsm
Raw Material:	12K Carbon Fiber
Weave:	2x2 Twill Weave
Construction	10.75 epi (±1.0) x 10.75 ppi (±1.0)
Carbon Weight:	670 gsm (±30 gsm) (19.8oz/yd ² ± 1.0)
Width*:	50 inch (±0.5 inch)
Edge Type:	Leno
Std. Roll Size:	100 linear yard

PROPERTIES

Carbon Fiber Properties (Lot Average)

	English	Metric
Tensile Strength	720 ksi	4963 MPa
Tensile Modulus	33.4 msi	230 GPa

Cured Laminate Properties*

Tensile Strength (ASTM D3039)	115,000 psi	793 MPa
Tensile Modulus (ASTM D3039)	6,000 ksi	41 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.

