

1069 3K, 2x2 Twill Weave Carbon Fiber Fabric



Overview: Graphite fibers contain up to 95% carbon and yield the highest tensile strength in the FRP industry. These fibers woven together form graphite fabric. These fabrics offer higher strength and stiffness-to-weight ratios than any other commonly available reinforcements. While there are hundreds of types to choose from, we have selected three styles of standard modulus carbon fiber which are suitable for use in racing, aircraft, competition marine, and light industrial applications. To maximize the fiber properties we recommend using only epoxy or vinyl ester resin, although polyesters will bond to the fabrics. This 2x2 twill weave fabric offers the cosmetic appearance so desirable on modern composite parts. But don't just use it for looks, this fabric is highly formable and

slightly stronger than the plain

Available in 1, 3 and 5 yard packages; custom cuts of 10 yards or more; and full rolls.

General Properties for Carbon Fiber Fabrics:

- Lightweight
- High Modulus
- High Strength
- Fire Resistant
- Dimensionally Stable
- Fatigue Resistant

Specific Product Properties:

Weave Pattern	2x2 twill
Yarn Description	Warp: 3K Multifilament Cont. Tow
	Fill: 3K Multifilament Cont. Tow
Count (Ends x Picks) inches	13x13
Weight	6.8 oz/yard ² (200 gsm approx.)
Thickness	0.012 inches
Roll Width	50 inches

Weave Pattern Rankings:

	Thickness	Weight	Strength	Porosity
Plain	3	1	3	1
Twill	2	1	4	2
4-Harness Satin	3	1	4	2
8-Harness Satin	1	1	7	4
Leno	7	7	1	7
Mock Leno	6	1	2	4

This was a scale from 1 to 7, with 1 being the lowest and 7 being the highest.

Resin Compatibility

Part Number	Polyester Resin	Vinyl Ester Resin	System 2000 Epoxy
292	X	X	P
530	X	X	P
596	X	X	P
597	X	X	P
598	X	X	P
660	X	X	P
1064	X	X	P
1069	X	X	P

A "P" is for the primary resin for the fabric.
An "X" means the fabric is compatible with the resin.
The compatibility is based on Fibre Glast Development's resins only