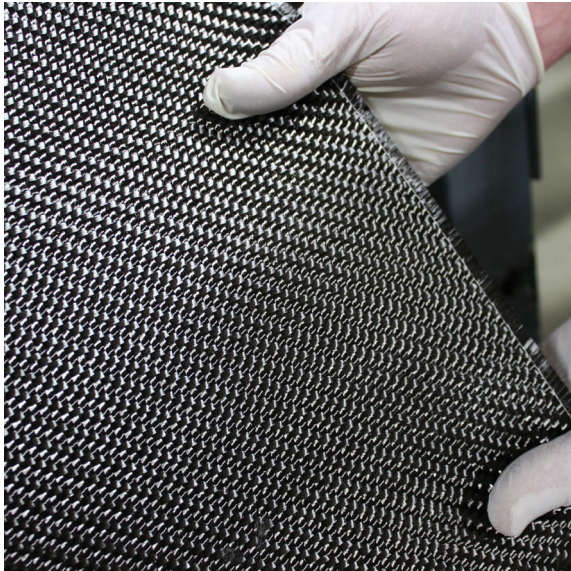


12K, 2 x 2 Twill Weave Carbon Fiber



Specific Product Properties	
Type	12K Carbon Multifilament Continuous Tow
Twist	Untwisted
Weave Pattern	2 x 2 Twill
Tensile Strength	620 - 655 KSI
Tensile Modulus	33.1 - 34.4 MSI
Elongation	1.75% - 1.95%
Warp ends/inch	10.75, 12K
Fill ends/inch	10.75, 12K
Areal Weight	19.8 oz/yd ²
Fabric Width	49.75 - 50.25 in

19.8 oz/sq yd, 50" Wide, 0.030" Thick, 12K, 2x2 Twill Weave

This twill weave will add bulk to your laminate quickly. Due to its higher weight and thickness, this fabric is slightly more difficult to form than lighter weight carbon. While it's not generally used for small, complex shapes, it is excellent for flat parts and high strength requirements. Twill weaves offer the signature appearance that is highly desirable for modern composite parts with great conformability and strength. This fabric is frequently used for structural applications, offering improved economics to fabricators when compared to multiple layers of lighter fabrics.

DESCRIPTION

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.

Resin Compatibility

1072 Carbon Fiber Fabric, is compatible with Polyester, Vinyl Ester, and Epoxy Resins.

General Properties for Carbon Fiber Fabrics

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

Information present herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.