

2" Braided Fiberglass Biaxial Sleeve



Product Properties	
Filament Diameter	K - 13µm
Type	FG 1800 Roving Hybon 2022
Tex	276
Angle +/-	45°
Yield ft/lb	26.5 +/- 1 ft/lb
Weight oz/yd ²	10.1-10.7
Inner Diameter	1.937-2.063

2", 10.4 oz/sq yd, 0.011" thick. This sleeve will conform to shapes with changing geometries. Great for use in prosthetics, hockey sticks and much more. It can be slid over a prepared mandrel or tube to create straight or tapered tubing. Biaxial sleeves can be increased from their base diameter up to 30% and decreased up to 70%. This means that a 2" diameter can be used in a single application ranging from 2.6" diameter down to 0.6". Laying up sleeves is predictable, repeatable and suitable for precise manufacture of composite parts.

Description

When nested together, each braided layer distributes load evenly while all layers move seamlessly together, resulting in a tough and impact-resistant braided composite. And, because all layers move together, braided sleeves are extremely resistant to cracks between layers, reducing the possibility of delamination and increasing the strength of the product.

Braided sleeves are also seamless, so they withstand internal pressure. When inflated, braided reinforcement works much like a shark's body, orienting itself to the direction of force. This actually strengthens its outer skin, enabling it to withstand pressure and carry load, and to tolerate damage and fatigue. If a puncture does occur, the sleeve provides a slow, controlled failure, rather than a more damaging and potentially dangerous blowup.

Braided sleeve easily and repeatedly expand and have the flexibility to twist and turn, quickly and efficiently, without weakening its armor-like sheath. Braided sleeving will also completely conform to the shape of products with changing geometries like prosthetics and hockey sticks, improving overall performance, minimizing weight, and maximizing strength.

Resin Compatibility:

2610, 2" Braided Fiberglass Biaxial Sleeve, is compatible with Polyester, Vinyl Ester, and Epoxy Resins.