

## 293 Knit Bi-axial Style 1815 (0/90) Fiberglass Fabric



**Overview:** Knit fabrics consist of a minimum of 1 ply of reinforcement materials, which are mechanically stitch bonded. When compared to standard reinforcement material, knitted fabrics provide superior mechanical performance at same reinforcement weight than traditional woven fabrics. Amount and orientation are adjustable to the laminate design requirements of our customers.

18 oz. Fiberglass roving stitches to a 1.5 oz. chopped strand mat, this fabric quickly adds strength and buildup while simultaneously aiding resin infusion. Because it is stitched rather than woven, there are no crimps to hinder resin travel. But don't use it just for infusion; Knit Bi-axial fabric is commonly used in the marine world and other applications.

Available in 1, 3, and 5 yard packages, custom cuts starting at 10 yards, and full rolls.

### General Properties for 293:

- Crimp-free construction for improved fiber alignment and mechanical properties
- Optimized directional fiber content reduces resin usage and part weight
- High bi-directional strength, stiffness, and flex for improved performance from a lighter laminate
- Reduce print-through, which enhances aesthetics with material and labor savings
- 50" Wide

### Physical Properties

Fabric Style	Total Weight (oz/yd <sup>2</sup> )	0°	90°	+45°	-45°	Mat	Dry Thickness (inches)
CDM1815	35.1	10.3	10.6	0	0	13.5	0.067

### Resin Compatibility:

Part Number	Polyester Resin	Vinyl Ester Resin	System 2000 Epoxy
293	X	X	

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