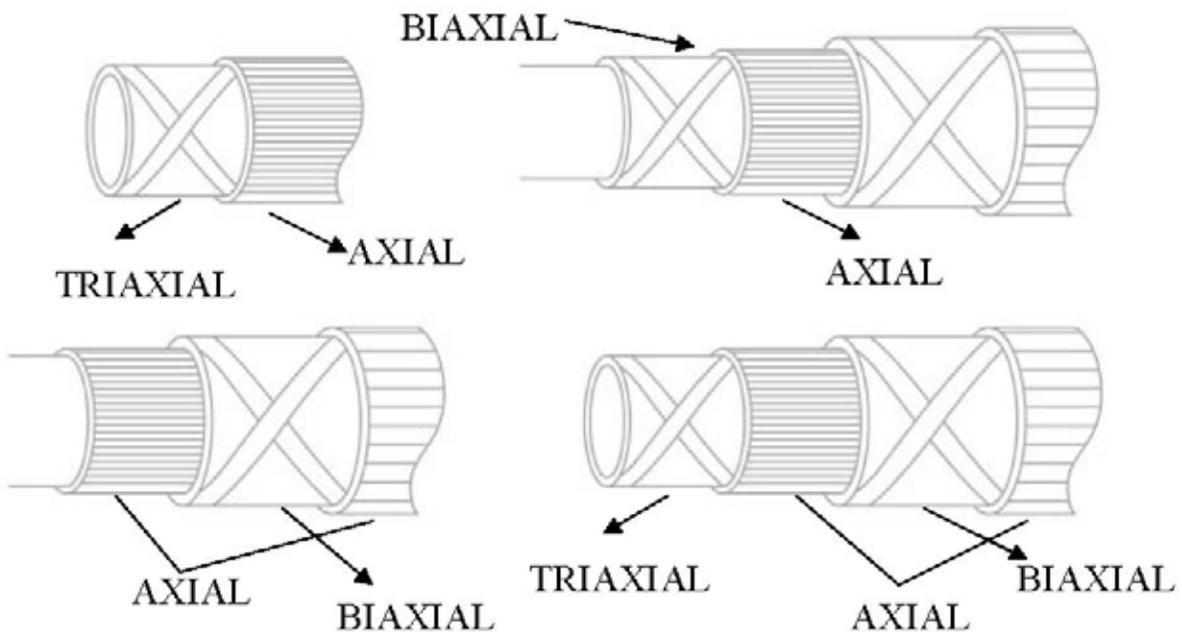




**Q:** *“How do changes in braid angle impact the composite properties?”*

**A:** More so than any other composite tube structure, the braided product manufactured by Polygon Company offers the ultimate in design flexibility. By alternating braid angle, the orientation of the angle within the laminate itself, and the cumulative proportion of the laminate’s axial and radial itself, and the cumulative proportion of the laminate’s axial and radial flexural, compressive, torsional and general mechanical properties. The following are examples of how braid angle changes can impact product performance.

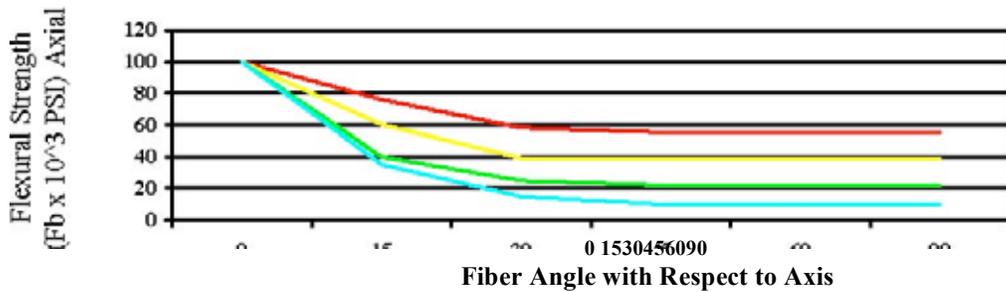
*Reference the below schematic for the following performance graphs.*





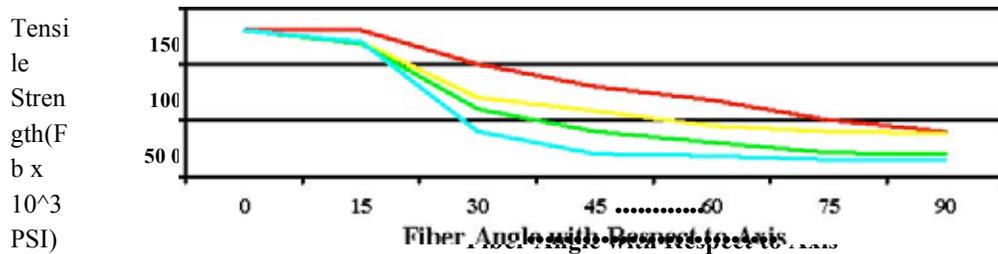
*“How do changes in braid angle impact the composite properties?”*

**Range of Flexural Strengths for Braided Composites (E-Glass and Epoxy)**



TRI-AXIAL 25, 75% AXIAL TRI-AXIAL 50%, 50% AXIAL TRI-AXIAL 75%, 25% AXIAL BI-AXIAL

**Range of Tensile Strengths for Braided Composites (E-Glass and Epoxy)**



TRI-AXIAL 25%, 75% AXIAL TRI-AXIAL 50%, 50% AXIAL TRI-AXIAL 75%, 25% AXIAL BI-AXIAL