



## **Braided Carbon Fiber Round Tube**

Comprised of carbon fiber braid and Unidirectional Fabrics our round tube is ideal for building light weight frames and structures such as trusses. Engineered to be much stronger under torsional and side loading than pultruded tubing and significantly lighter. Designed so that the unidirectional layers are captured, eliminating longitudinal cracking and splitting.

STANDARD SIZES			
$\begin{array}{c} 0.415" \pm 0.015 \ \text{OD} \\ 0.53" \pm 0.015 \ \text{OD} \\ 0.79" \pm 0.015 \ \text{OD} \\ \hline \end{array} \\ \hline \begin{array}{c} \textbf{LARGE SIZES} \\ \hline \end{array} \\ \hline \begin{array}{c} \textbf{IARGE SIZES} \\ 0.75" & (0.75 \pm 0.010) \ \text{ID} \\ 1" & (1.000 \pm 0.010) \ \text{ID} \\ 1.5" & (1.500 \pm 0.010) \ \text{ID} \\ 2" & (2.015 \pm 0.010) \ \text{ID} \\ 3" & (3.012 \pm 0.010) \ \text{ID} \\ 4" & (4.013 \pm 0.010) \ \text{ID} \\ 4" & (6.010 \pm 0.010) \ \text{ID}^* \\ 6" & (6.010 \pm 0.010) \ \text{ID}^* \end{array}$	ID 0.29" (± 0.010) 0.40" (± 0.010) 0.54" (± 0.010) WALL THICKNESS 0.040" (± 0.010) 0.040" (± 0.010) 0.040" (± 0.010) 0.045" (± 0.015) 0.080" (± 0.015) 0.080" (± 0.015)	WEIGHT (lbs/ft) 0.04 0.05 0.16 WEIGHT (lbs/ft) 0.06 0.08 0.11 0.15 0.47 0.56 0.90	
Lengths:         96", 72", 48", 24" (-0, +0.5)         Finishes:         Natural, Gloss           * Only available up to 48"         *         *         *			
<ul> <li>Additional Options</li> <li>Custom Sizes</li> <li>Custom Lengths</li> <li>Custom Wall Thickness</li> <li>CNC Machining</li> <li>Design and Engineerin Services</li> </ul>	<ul> <li>Propertie Tensile St Modulus</li> <li>Propertie Tensile St Modulus</li> <li>Resin Epoxy res approxim</li> <li>Lay Up So ± 45° bi-c 0° uni-dir ± 45° bi-c</li> </ul>	nately 50% of the composition chedule (Large Sizes) axial CF braid ectional CF $[\pm 45/\bar{0}]_s$ axial CF braid	Properties of UNI Fiber (Small Sizes) Tensile Strength: 600 ksi Modulus of Elasticity: 34 Msi ≈ 50%

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