

## Carbon Fiber Tow PRODUCT DATA SHEET

# Carbon Fiber made with HexTow® AS4C - Industrial

Carbon Fiber Tow is a continuous, high strength, high strain, PAN based fiber, that has been surface treated and is suitable as a reinforcement in small, high stregth, low weight structures.

### **FIBER PROPERTIES**

Tensile Strength650 ksi650 ksi650 ksiTensile Modulus33.5 Msi33.5 Msi33.5 Msi	
Ultimate Elongation at Failure 1.8% 1.8% 1.8%	
Weight/Length 11.2 x 10 <sup>-6</sup> lb/in 22.4 x 10 <sup>-6</sup> lb/in 44.8 x 10 <sup>-6</sup> lb	/in
Approximate Yield 7,441 ft/lb 3,721 ft/lb 1,861 ft/lb	
$\label{eq:cross-Sectional Area} \mbox{Tow Cross-Sectional Area} \mbox{ 1.74 x } 10^{-4} \mbox{ in}^2 \mbox{ 3.48 x } 10^{-4} \mbox{ in}^2 \mbox{ 6.97 x } 10^{-4} \mbox{ in}$	2
Filament Diameter 0.272 mil 0.272 mil 0.272 mil	
Carbon Content 94.0% 94.0% 94.0%	
Fiber Volume 60.0% 60.0% 60.0%	
Density 0.0643 lb/in <sup>3</sup> 0.0643 lb/in <sup>3</sup> 0.0643 lb/in <sup>3</sup>	
Twist Never Twisted Never Twisted Never Twisted	d



#### **PRODUCT GRADE**

- HS-CP-3000 Hexcel Industrial Grade

## **USES INCLUDE**

- Weaving
- Prepregging
- Filament Winding
- Braiding
- Pultrusion

#### **COMPATIBILITY**

- Compatible with polyester, vinyl-ester and epoxy resins



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All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.





**Q**UALITY **M**ANAGEMENT SY<u>STEM</u>