



# HexTow<sup>®</sup> 85

## Carbon Fiber



### Product Data Sheet

HexTow<sup>®</sup> 85 carbon fiber is a continuous, PAN based fiber available in 24,000 (24K) filament count tows. This fiber was developed specifically as a cost-effective replacement of rayon-based carbon fiber for ablative applications.

The method in which it is processed results in a PAN-based carbon fiber that delivers equivalent strength and ablative performance to traditional rayon-based carbon fiber in carbon-carbon composite structures. Composite and carbon-carbon ablative data are currently being generated to compare HexTow<sup>®</sup> 85 performance to historical rayon databases.

HexTow<sup>®</sup> 85 is manufactured in the United States from U.S.-produced PAN precursor, ensuring a reliable supply chain for ablative materials used on US military applications.

Typical Fiber Properties	U.S. Units	SI Units
Density	0.0643 lb/in <sup>3</sup>	1.78 g/cm <sup>3</sup>
Weight/Length (24K)	100 x 10 <sup>-6</sup> lb/in	1.78 g/m
Approximate Yield (24K)	836 ft/lb	0.56 m/g
Tow Cross-Sectional Area (24K)	15.5 x 10 <sup>-4</sup> in <sup>2</sup>	1.0 mm <sup>2</sup>
Carbon Content	85%	85%

### Packaging

Standard packaging of HexTow<sup>®</sup> 85 is as follows:

Filament Count	Nominal Weight		Nominal Length	
	(lb)	(kg)	(ft)	(m)
24K	8.0	3.6	6800	2070

*Other package sizes may be available on request.*

*The fiber is wound on a 3-inch ID by 11-inch long cardboard tube and overwrapped with plastic film.*

### Safety Information

Obtain, read, and understand the Safety Data Sheet (SDS) before use of this product.



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### For more information

Hexcel is a leading worldwide supplier of composite materials to aerospace and industrial markets. Our comprehensive range includes:

- |                                    |  |   |
|------------------------------------|--|---|
| • HexTow® carbon fibers            | • HexFlow® RTM resins                      | • Engineered core                           |
| • HexForce® reinforcements         | • HexBond™ adhesives                       | • Engineered products                       |
| • HiMax™ multiaxial reinforcements | • HexTool® tooling materials               | • Polyspeed® laminates & pultruded profiles |
| • HexPly® prepregs                 | • HexWeb® honeycombs                       | • HexAM® additive manufacturing             |
| • HexMC®-i molding compounds       | • Acousti-Cap® sound attenuating honeycomb |   |

For US quotes, orders and product information call toll-free 1-866-556-2662. For other worldwide sales office telephone numbers and a full address list, please go to:

<http://www.hexcel.com/contact>

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