



# HexTow<sup>®</sup> IM9

## Carbon Fiber



### Product Data Sheet

HexTow<sup>®</sup> IM9 carbon fiber is a continuous, high performance, intermediate modulus, PAN-based fiber available in 24,000 (24K) filament count tows. This fiber has been surface treated and is sized to improve its interlaminar shear properties, handling characteristics, and structural properties. It is suggested for use in prepregging. The unique properties of HexTow<sup>®</sup> IM9 fiber, such as higher tensile strength and modulus, as well as good shear strength, allow structural designers to achieve both higher safety margins for both stiffness and strength critical applications and delivering a strong value proposition to the industry.

Typical Fiber Properties	U.S. Units	SI Units
Tensile Strength (24K)	915 ksi	6,300 MPa
Tensile Modulus (Chord 6000-1000)	42.5 Msi	294 GPa
Ultimate Elongation at Failure (24K)	1.9%	1.9%
Density	0.0648 lb/in <sup>3</sup>	1.79 g/cm <sup>3</sup>
Weight/Length (24K)	57.0 x 10 <sup>-6</sup> lb/in	1.02 g/m
Approximate Yield (24K)	1,459 ft/lb	0.98 m/g
Tow Cross-Sectional Area (24K)	8.83 x 10 <sup>-4</sup> in <sup>2</sup>	0.57 mm <sup>2</sup>
Filament Diameter	0.216 mil	5.5 microns
Carbon Content	95.0%	95.0%
Twist	Never Twisted	Never Twisted

### Available Sizing

Sizing compatible with various resin systems, based on application are available to improve handling characteristics and structural properties. Please see additional information on available sizes on our website or contact our technical team for additional information.

### Sizing

Size	Compatibility	Recommended Uses
GS	Epoxy, Vinyl Ester, Polyurethane	Prepreg Tape

*\*Compatibility with these Matrices is considered theoretically compatible. Hexcel cannot guarantee their results.*

### Packaging

Standard packaging of HexTow<sup>®</sup> IM9 is as follows:

Filament Count	Sizing	Nominal Weight		Nominal Length	
		(lb)	(kg)	(ft)	(m)
24K	GS (0.5%)	8.0	3.6	11,504	3,506

*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.



## For more information

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

- HexTow® carbon fibers
- HexForce® reinforcements
- HiMax® multiaxial reinforcements
- HexPly® prepregs
- HexMC® molding compounds
- HiFlow® RTM resins
- HexBond® adhesives
- HexTool® tooling materials
- HexWeb® honeycomb
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products

For U.S. quotes, orders and product information call toll-free 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list, please go to:

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

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