



HexTow[®] IM11

Carbon Fiber



Product Data Sheet

HexTow[®] IM11 carbon fiber is a continuous, high performance, intermediate modulus, PAN based fiber available in 6,000 (6K) and 12,000 (12K) filament count tows. This fiber has been surface treated and can be sized to improve its interlaminar shear properties, handling characteristics, and structural properties. It is suggested for use in prepregging, filament winding, braiding, and pultrusion where additional strength and modulus are required over IM8.

Typical Fiber Properties	U.S. Units	SI Units
Tensile Strength	960 ksi	6,600 MPa
Tensile Modulus (Chord 6000-1000)	47 Msi	324 GPa
Ultimate Elongation at Failure	2.0%	2.0%
Density	0.0647 lb/in ³	1.79 g/cm ³
Weight/Length (6K)	12.2 x 10 ⁻⁶ lb/in	0.218 g/m
Weight/Length (12K)	24.5 x 10 ⁻⁶ lb/in	0.436 g/m
Approximate Yield (6K)	6,818 ft/lb	4.59 m/g
Approximate Yield (12K)	3,416 ft/lb	2.29 m/g
Tow Cross-Sectional Area (6K)	2.00 x 10 ⁻⁴ in ²	0.12 mm ²
Tow Cross-Sectional Area (12K)	3.67 x 10 ⁻⁴ in ²	0.25 mm ²
Filament Diameter	0.196 mil	5.0 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
GP	Epoxy, Phenolic, Vinyl Ester, Polyurethane, Cyanate Ester, BMI	Weaving, Filament Winding, Prepreg Tape
R	Epoxy	Filament Winding

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

Packaging

Standard packaging of HexTow[®] IM11 is as follows:

Filament Count	Sizing	Nominal Weight		Nominal Length	
		(lb)	(kg)	(ft)	(m)
6K	GP (0.9%)	2.0	0.9	13,330	4,060
12K	GP, R (0.9%)	4.0	1.8	13,330	4,060

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.

Hexcel Product Family



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[®]-i molding compounds
- HiFlow[®] resins
- HexFlow[®] 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 1-866-556-2662 or 1-800-688-7734. For other worldwide sales office telephone numbers and a full address list, please go to:

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

©2026 Hexcel Corporation – All rights reserved. Hexcel Corporation and its subsidiaries ("Hexcel") believe that the technical data and other information provided herein was materially accurate as of the date this document was issued. Hexcel reserves the right to update, revise or modify such technical data and information at any time. Any performance values provided are considered representative but do not and should not constitute a substitute for your own testing of the suitability of our products for your particular purpose. **Hexcel makes no warranty or representation, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, and disclaims any liability arising out of or related to, the use of or reliance upon any of the technical data or information contained in this document.**

