



HexTow[®] Chopped Fiber

Carbon Fiber

Product Data



HexTow[®], PAN based carbon fiber is available in 1/4 inch chopped fiber lengths, sized for compatibility with various resin matrix systems and processes. The chopped product is small, thin, rectangular flake, 1/4 inch long by 1/8 to 1/4 inch wide. The individual filaments are lightly held together by the sizing and will break apart during subsequent processing.

The specially formulated sizing systems, in addition to improving bonding, produce a higher bulk density that aids in blending operations and in the flow through mechanical feed systems.

Addition of chopped carbon fiber to molding compounds produces a material that exhibits high strength and modulus, excellent fatigue and creep resistance, low thermal expansion, electrical and thermal conductivity, excellent friction and wear resistance, and low shrinkage.

Available Chopped Carbon Fiber Products

Property	Units	Chopped Carbon Fiber Type			
		1	2	3	4
IM Carbon Fiber	%	100	50 - 100	0 - 100	0
AS Carbon Fiber	%	0	0 - 50	100 - 0	100
Fiber Length*	in	0.25	0.25	0.25	0.25
	mm	6.4	6.4	6.4	6.4
Standard Packaging	lbs	40	40	40	40
	kg	18.1	18.1	18.1	18.1

* Other fiber lengths available on request

Available Chopped Carbon Fiber Sizing Systems

Sizing Type	Units	XX00	XX25	BR102
Sizing Content	wt. %	3 - 7%	3 - 7%	4 - 8%
Size Compatibility**		Polyamide (nylon)	Polyamide (nylon), Polycarbonate, Polyphenylene sulfide, Polyurethane, PEI, Polyester	Polycarbonate, Polysulfone, Epoxy

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

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**Carbon Fiber Certification**

This carbon fiber is manufactured to Hexcel industrial specification HS-CP-1000. A copy of this specification is available upon request. A Certification of Conformance will be provided with each shipment.

Available Sizing

Chopped carbon fiber sized with other resins (to customer's specifications) will be considered on special request. Contact our technical team for additional information.

Packaging

Chopped carbon fiber is packaged in polyethylene bags and packed in boxes typically containing 40 pounds. Each box shipped is packaged to prevent handling and shipping damage. Box labeling includes: fiber type, Hexcel lot number, and net weight. Packaging shall meet the Uniform Freight Classification Ratings Rules and Regulations or other requirements, when applicable.

Safety Information

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

Important

Hexcel Corporation believes, in good faith, that the technical data and other information provided herein is materially accurate as of the date this document is prepared. Hexcel reserves the right to modify such information at any time. The performance values in this data sheet are considered representative but do not and should not constitute specification minima. The only obligations of Hexcel, including warranties, if any, will be set forth in a contract signed by Hexcel or in Hexcel's then current standard Terms and Conditions of Sale as set forth on the back of Hexcel's Order Acknowledgement.

For more information

Hexcel is a leading worldwide supplier of composite materials to aerospace and other demanding industries. Our comprehensive product range includes:

- Carbon Fiber
- RTM Materials
- Honeycomb Cores
- Carbon, Glass, Aramid and Hybrid Prepregs
- Structural Film Adhesives
- Honeycomb Sandwich Panels
- Special Process Honeycombs
- Reinforced Fabrics

For US quotes, orders and product information call toll-free 1-866-556-2662 and 1-800-987-0658. For other worldwide sales office telephone numbers and a full address list, please click here: <http://www.hexcel.com/contact/salesoffice>