

## Hexcel® HexTow™ AS4D Carbon Fiber

Category : Carbon , Carbon Fiber

### Material Notes:

HexTow™ AS4D carbon fiber is a continuous, high strength, high strain, PAN based fiber available in 12,000 (12K) filament count tows. The fiber has been surface treated and can be sized to improve its interlaminar shear properties, handling characteristics, and structural properties, and is suggested for use in weaving, prepregging, filament winding, pultrusion, and molding compounds. Sizing compatible with various resin systems are available to improve handling characteristics and structural properties. Information provided by Hexcel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hexcel-HexTow-AS4D-Carbon-Fiber.php](http://www.lookpolymers.com/polymer_Hexcel-HexTow-AS4D-Carbon-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in <sup>3</sup>	
Filament Diameter	6.7 μm	6.7 μm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2415 MPa	350300 psi	Typical epoxy composite property
	4800 MPa	696000 psi	Typical fiber property
Elongation at Break	1.8 %	1.8 %	Calculated from tow test data
Tensile Modulus	152 GPa	22000 ksi	Typical epoxy composite property
	245 GPa	35500 ksi	Typical fiber property; Chord 6000-1000
Flexural Modulus	128 GPa	18600 ksi	Typical epoxy composite property
Shear Strength	124 MPa	18000 psi	Typical epoxy composite property; short-beam

Component Elements Properties	Metric	English	Comments
Carbon, C	94 %	94 %	

Descriptive Properties	Value	Comments
Approximate Yield (m/g)	1.31	12K
Fiber Volume (%)	62	
Filament Shape	Round	
Tow Cross-Sectional Area (mm <sup>2</sup> )	0.43	12K
Twist	None	

Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China