

Hexcel® HexTow™ AS7 Carbon Fiber

Category : Carbon , Carbon Fiber

Material Notes:

HexTow™ AS7 carbon fiber is a continuous, high strength, high strain, PAN based fiber available, in a 12,000 (12K) filament count tow. This fiber has been surface treated and can be sized to improve its interlaminar shear properties, handling characteristics, and structural properties. Suggested for use in prepregging, weaving, and filament winding. Information provided by Hexcel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexTow-AS7-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	
Filament Diameter	6.9 µm	6.9 µm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2415 MPa	350300 psi	Typical epoxy composite property
	4830 MPa	701000 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
	241 GPa	35000 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)	1.25	12K
Fiber Volume (%)	62	
Tow Cross-Sectional Area (mm ²)	0.45	12K
Weight/Length (g/m)	0.8	12K

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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