

Hexcel® HexTow™ AS4C Carbon Fiber

Category : Carbon , Carbon Fiber

Material Notes:

HexTow™ AS4C carbon fiber is a continuous, high strength, high strain, PAN based fiber available in 3,000 (3K), 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. Suggested for use in weaving, prepregging, filament winding, pultrusion, and molding compounds. Information provided by Hexcel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-HexTow-AS4C-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Filament Diameter	6.9 μm	6.9 μm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2263 MPa	328200 psi	Typical epoxy composite property
	4410 MPa	640000 psi	Typical fiber property
Elongation at Break	1.8 %	1.8 %	Calculated from tow test data
Tensile Modulus	143 GPa	20700 ksi	Typical epoxy composite property
	231 GPa	33500 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
	2.5	6K
	5	3K
Fiber Volume (%)	62	
Filament Shape	Round	

Descriptive Properties	Value	Comments
Area (mm ²)	0.22	6K
	0.45	12K
Twist	None	
Weight/Length (g/m)	0.2	3K
	0.4	6K
	0.8	12K

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