

Hexcel® HexTow™ AS2C Carbon Fiber

Category : Carbon , Carbon Fiber

Material Notes:

HexTow™ AS2C 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-AS2C-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Filament Diameter	6.9 μm	6.9 μm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	2140 MPa	310000 psi	Typical epoxy composite property
	4470 MPa	648000 psi	Typical fiber property
Elongation at Break	1.9 %	1.9 %	Calculated from tow test data
Tensile Modulus	136 GPa	19700 ksi	Typical epoxy composite property
	221 GPa	32100 ksi	Typical fiber property; Chord 6000-1000
Flexural Strength	1725 MPa	250200 psi	Typical epoxy composite property
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	

Descriptive Properties	Value	Comments
Tow Cross-Sectional Area (mm ²)	0.11	3K
	0.22	6K
	0.44	12K
Twist	None	
Weight/Length (g/m)	0.2	3K
	0.4	6K
	0.8	12K

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