

Cytec Thornel® T-650/35 12K Carbon Fiber, Polyacrylonitrile (PAN) Precursor

Category : Carbon , Carbon Fiber , Other Engineering Material , Composite Fibers

Material Notes:

Data provided by the manufacturer, Amoco Performance Products, Inc. Continuous length, high strength, high modulus fiber made from a polyacrylonitrile precursor. The fiber surface has been treated to increase the interlaminar shear strength in a resin matrix composite. 12000 filaments/strand, 94% carbon assay, 6.8 µm filament diameter, 1.31 m/g yield, 0 tpm twist (also available twisted), 0.432 mm² fiber area in yarn cross section. Thornel® products were sold by Amoco and are now owned by Cytec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cytec-Thornel-T-65035-12K-Carbon-Fiber-Polyacrylonitrile-PAN-Precursor.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in³	
Specific Surface Area	0.50 m²/g	0.50 m²/g	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	4550 MPa	660000 psi	
Elongation at Break	1.75 %	1.75 %	
Modulus of Elasticity	248 GPa	36000 ksi	In Tension

Thermal Properties	Metric	English	Comments
CTE, linear	-0.500 µm/m-°C	-0.278 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	14.0 W/m-K	97.2 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00149 ohm-cm	0.00149 ohm-cm	

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