

Cytec Thornel® T-650/42 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, 5.1 µm filament diameter, 2.27 m/g yield, 0 tpm twist (also available twisted), 0.246 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-65042-12K-Carbon-Fiber-Polyacrylonitrile-PAN-Precursor.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Specific Surface Area	0.50 m ² /g	0.50 m ² /g	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	4820 MPa	699000 psi	
Elongation at Break	1.7 %	1.7 %	
Modulus of Elasticity	290 GPa	42100 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	15.0 W/m-K	104 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00142 ohm-cm	0.00142 ohm-cm	

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