

Cytec Thornel® T-650/42 6K 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.6000 filaments/strand, 94% carbon assay, 5.1 µm filament diameter, 4.47 m/g yield, 0 tpm twist (also available twisted), 1.29 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-65042-6K-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 m²/g	0.50 m²/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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