

Cytec Thornel® T-300 1K 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. 1000 filaments/strand, 92% carbon assay, 7 µm filament diameter, 15.2 m/g yield, 25 tpm twist (also available untwisted), 0.037 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-300-1K-Carbon-Fiber-Polyacrylonitrile-PAN-Precursor.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	
Specific Surface Area	0.45 m ² /g	0.45 m ² /g	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	3450 MPa	500000 psi	
Elongation at Break	1.4 %	1.4 %	
Modulus of Elasticity	231 GPa	33500 ksi	In Tension

Thermal Properties	Metric	English	Comments
CTE, linear	-0.600 µm/m-°C	-0.333 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	8.50 W/m-K	59.0 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00180 ohm-cm	0.00180 ohm-cm	

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