

Cytec Thornel® P-55S 4K Carbon Fiber, Pitch Precursor

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

Material Notes:

Data provided by the manufacturer, Amoco Performance Products, Inc. Continuous filament, high modulus strands made from a pitch precursor. The fiber surface has been treated to increase the interlaminar shear strength in a resin matrix composite. This type of fiber was developed for use in stiffness critical applications. 4000 filaments/strand, 99+% carbon assay, 11 µm filament diameter, 1.4 m/g yield, 0 tpm twist, 0.361 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-P-55S-4K-Carbon-Fiber-Pitch-Precursor.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	
Specific Surface Area	0.35 m ² /g	0.35 m ² /g	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1720 MPa	249000 psi	
Elongation at Break	0.50 %	0.50 %	
Modulus of Elasticity	415 GPa	60200 ksi	In Tension

Thermal Properties	Metric	English	Comments
CTE, linear	-1.30 µm/m-°C	-0.722 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	110 W/m-K	763 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000900 ohm-cm	0.000900 ohm-cm	

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