

Cytec Thornel® P-100S 2K 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, ultra high modulus fibers consisting of 2000 filaments in a one-ply construction. The fiber surface has been treated to increase the interlaminar shear strength in a resin matrix composite. 2000 filaments/strand, 0.32 m/g yield, 0 or 32 tpm twist 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-100S-2K-Carbon-Fiber-Pitch-Precursor.php

Physical Properties	Metric	English	Comments
Density	2.13 g/cc	0.0770 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2100 MPa	305000 psi	
Elongation at Break	0.20 %	0.20 %	
Modulus of Elasticity	760 GPa	110000 ksi	In Tension

Thermal Properties	Metric	English	Comments
CTE, linear	-1.60 µm/m-°C	-0.889 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	520 W/m-K	3610 BTU-in/hr-ft ² -°F	

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