

Cytec Thornel® P-120 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. 2000 filaments/strand, 0.33 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-120-2K-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	2400 MPa	348000 psi	
Elongation at Break	0.50 %	0.50 %	
Modulus of Elasticity	830 GPa	120000 ksi	In Tension

Thermal Properties	Metric	English	Comments
CTE, linear	-1.60 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	-0.889 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	640 W/m-K	4440 BTU-in/hr-ft ² - $^\circ\text{F}$	

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