

Cytec Thornel® VCB-20 Carbon Fiber Cloth

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

Material Notes:

Data provided by the manufacturer, Amoco Performance Products, Inc. Used as a reinforcement in structural, ablative, and abrasion-resistant composites. 2000 filaments/strand, 99+% carbon assay. 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-VCB-20-Carbon-Fiber-Cloth.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc	0.0679 lb/in ³	Fiber Density
Specific Surface Area	1.0 m ² /g	1.0 m ² /g	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1380 MPa	200000 psi	Fiber Strand
Modulus of Elasticity	138 GPa	20000 ksi	Fiber strand in tension

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.710 J/g-°C	0.170 BTU/lb-°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	Across ply
	15.0 W/m-K	104 BTU-in/hr-ft ² -°F	Fiber Value

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