

Cytec Thornel® Mat VMA Carbon Fiber

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

Material Notes:

Data provided by the manufacturer, Amoco Performance Products, Inc. Composed of high strength, high modulus carbon filaments in a random-layered orientation. The fine diameter filaments are up to three inches long and are mechanically bonded to form a continuous web of materials ~ 1 inch thick, 20.5 inches wide that is supplied in rolls 60-80 feet long. 98% carbon assay, 13 µm filament diameter 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-Mat-VMA-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	Filament Property.
Apparent Bulk Density	0.0360 g/cc	0.00130 lb/in ³	
Specific Surface Area	0.40 m ² /g	0.40 m ² /g	Filament Property

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1400 MPa	203000 psi	Filament Property. Mat strength is 120 N/m
Modulus of Elasticity	170 GPa	24700 ksi	Filament property, in tension

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft ² -°F	across thickness of mat

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00120 ohm-cm	0.00120 ohm-cm	Filament
	0.700 ohm-cm	0.700 ohm-cm	Mat

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