

Type P-VSB-32 (Union Carbide) Carbon Fiber

Category : Polymer , Thermoset , Carbon Fiber/Thermoset Composite

Material Notes:

Pitch fibers are prepared by heating aromatic compounds above 350°C. A dehydrogenation condensation reaction occurs to form planar aromatic molecules which aggregate into a liquid crystalline phase (a mesophase). Once the mesophase content has reached about 40%, a phase inversion occurs and this anisotropic material becomes the continuous phase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Type-P-VSB-32-Union-Carbide-Carbon-Fiber.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2000 MPa	290000 psi	Fiber only. Composites containing this fiber may have tensile strength of 1000 MPa.
Modulus of Elasticity	220 GPa	31900 ksi	or 350 GPa for fiber
Shear Strength	31.0 MPa	4500 psi	Interlaminar shear.

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