

## Type P-VS-0053 (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-VS-0053-Union-Carbide-Carbon-Fiber.php](http://www.lookpolymers.com/polymer_Type-P-VS-0053-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	300 GPa	43500 ksi	or 520 GPa for fiber
Shear Strength	20.0 MPa	2900 psi	Interlaminar shear.

## Contact Songhan Plastic Technology Co.,Ltd.

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