

Greene Tweed Xycomp® 1001-01 PEEK, Carbon Fiber Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Greene, Tweeds Xycomp® engineered components offer a wider range of benefits than conventional thermoset resin systems because they rely on thermoplastic resins for their matrix. With specific strength and specific stiffness values over 400 percent that of Titanium and superior chemical compatibility and fire resistance properties, Greene, Tweeds Xycomp composites deliver greater value. Like all Greene, Tweed products, Xycomp components reflect the combination of engineering expertise with customer specifications. Additional benefits offered by Xycomp include improved chemical resistance, increased impact, toughness and ductility, more complex single-mold components, excellent post-molding machinability, recyclability, and infinite shelf life. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Xycomp-1001-01-PEEK-Carbon-Fiber-Filled.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.6 MPa	13000 psi	90°; RT
	2070 MPa	300000 psi	0°; RT
Tensile Strength, Ultimate	386 MPa	56000 psi	Open Hole
Elongation at Break	0.88 %	0.88 %	90°; RT
	1.45 %	1.45 %	0°; RT
Tensile Modulus	10.3 GPa	1500 ksi	90°; RT
	138 GPa	20000 ksi	0°; RT
Flexural Strength	2000 MPa	290000 psi	0°; RT
Flexural Modulus	124 GPa	18000 ksi	0°; RT
Compressive Strength	324 MPa	47000 psi	Open Hole
	1360 MPa @Temperature 22.0 °C	197000 psi @Temperature 71.6 °F	0°
Compressive Modulus	124 GPa	18000 ksi	0°; RT
Poissons Ratio	0.30	0.30	RT
Shear Modulus	5.65 GPa	820 ksi	In Plane
Shear Strength	186 MPa	27000 psi	In-Plane

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