

Greene Tweed Orthtek® RP Polyketone, Random Carbon Fiber

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

Material Notes:

Greene Tweed offers precision-molded thermoplastic components made from high-performance Orthtek® composite materials for a variety of demanding medical device applications. Orthtek RP is ideally suited to replace metal due to strength, dimensional stability, low weight and corrosion resistance. Orthtek RP is recommended for noncomplex parts such as nail guides where radiolucency and autoclaving are required. Applications: Medical Trauma – Targeting instruments such as tibial or humeral nail guides Medical Orthopedic – Surgical instruments and retractors Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Orthtek-RP-Polyketone-Random-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Water Absorption	0.050 %	0.050 %	at 212°F (100°C); ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	1240 MPa	180000 psi	ASTM D3039
Elongation at Break	0.50 %	0.50 %	ASTM D3039
Tensile Modulus	27.6 GPa	4000 ksi	ASTM D3039
Flexural Strength	324 MPa	47000 psi	ASTM D790
Flexural Modulus	25.5 GPa	3700 ksi	ASTM D790
Compressive Strength	255 MPa	37000 psi	ASTM D695
Compressive Modulus	22.8 GPa	3300 ksi	ASTM D695

Descriptive Properties	Value	Comments
Color	Black	
Fiber Orientation	Random	
Fiber Volume, %	50	

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