

ORTHTEK® RP

Polyetheretherketone

Greene, Tweed & Co.

Message:

Greene, Tweed offers precision-molded thermoplastic components made from our high-performance Orthtek® composite materials for a variety of demanding medical device applications. Orthtek RP is ideally suited to replace metal due to its 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.

General Information			
Filler / Reinforcement	Carbon Fiber,50% Filler by Volume		
Features	Autoclavable		
	Autoclave Sterilizable		
	E-beam Sterilizable		
	Good Corrosion Resistance		
	Good Dimensional Stability		
	Good Stiffness		
	Good Strength		
	Low to No Water Absorption		
	Radiation Sterilizable		
	Radiotranslucent		
Steam Sterilizable			
Uses	Medical/Healthcare Applications		
	Metal Replacement		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm³	ASTM D792
Water Absorption ¹ (Saturation, 100°C)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	27600	MPa	ASTM D3039
Tensile Strength (Break)	1240	MPa	ASTM D3039
Tensile Elongation (Break)	0.50	%	ASTM D3039
Flexural Modulus	25500	MPa	ASTM D790
Flexural Strength	324	MPa	ASTM D790
Compressive Modulus	22800	MPa	ASTM D6641
Compressive Strength	255	MPa	ASTM D6641
NOTE			
1.	48 hrs		

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Recommended distributors for this material

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