

ORTHTEK® WF

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 and biotechnology applications. Orthtek WF components work well as metal replacement, and dimensional stability. Orthtek WF is recommended applications such as nail guides and retractors where radiolucency and autoclaving are required.

General Information			
Filler / Reinforcement	Carbon Fiber,50% Filler by Volume		
Features	Autoclavable		
	Autoclave Sterilizable		
	Durable		
	E-beam Sterilizable		
	Good Corrosion Resistance		
	Good Dimensional Stability		
	Good Stiffness		
	Good Strength		
	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	60000	MPa	ASTM D3039
Tensile Strength (Break)	627	MPa	ASTM D3039
Tensile Elongation (Break)	1.0	%	ASTM D3039
Flexural Modulus	48300	MPa	ASTM D790
Flexural Strength	827	MPa	ASTM D790
Compressive Modulus	55200	MPa	ASTM D6641
Compressive Strength	572	MPa	ASTM D6641
Additional Information	Nominal Value		
Fiber Tow Size	3K		
NOTE			

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Recommended distributors for this material

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