

Ketron® PEEK-GF30 LSG

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

KETRON® PEEK-GF30 LSG blue stock shapes are produced from genuine VICTREX® PEEK polymer. This 30% glass fibre reinforced grade combines higher stiffness and creep resistance than KETRON PEEK LSG with a much better dimensional stability. KETRON PEEK-GF30 LSG blue stock shapes have also been successfully type tested for their compliance with both United States Pharmacopeia (USP) and ISO 10993-1 guideline requirements for Biocompatibility Testing of Materials, and they come with full traceability from resin to stock shape. These features, added to an excellent sterilizability by means of steam, dry heat, ethylene oxide, plasma and gamma irradiation, make KETRON PEEK -CA30 LSG stock shapes very suitable for applications in the medical, pharmaceutical and biotechnology markets.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Biocompatible		
	E-beam Sterilizable		
	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Sterilizability		
	High Stiffness		
	Radiation Sterilizable		
Uses	Steam Sterilizable		
	Medical/Healthcare Applications		
Agency Ratings	Pharmaceuticals		
	EU 2002/72/EC		
	FDA Food Contact, Unspecified Rating		
	ISO 10993-Part 1		
Appearance	USP Unspecified Rating		
	Blue		
	Disc		
	Preformed Parts		
Forms	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.10	%	

Equilibrium, 23°C, 50% RH	0.050	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress (Break)	87.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Stress	155	MPa	ISO 178
Compressive Stress (5% Strain)	155	MPa	ISO 604
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Continuous Use Temperature ¹	250	°C	
Melting Temperature	340	°C	ISO 11357-3
CLTE - Flow (23 to 150°C)	3.0E-4	cm/cm/°C	
Thermal Conductivity	0.43	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60		IEC 60250
Dissipation Factor (1 MHz)	2.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	Long term in Air		

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