

Ketron® PEEK-CA30 LSG

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

KETRON® PEEK-CA30 LSG stock shapes are produced from genuine VICTREX® PEEK polymer. This 30% carbon fibre reinforced grade combines even higher stiffness, mechanical strength and creep resistance than KETRON PEEK-GF30 LSG blue with an optimum wear resistance. KETRON PEEK-CA30 LSG 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	Carbon Fiber,30% Filler by Weight		
Features	Biocompatible		
	E-beam Sterilizable		
	Ethylene Oxide Sterilizable		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Sterilizability		
	High Stiffness		
	High Strength		
	Radiation Sterilizable		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
	Pharmaceuticals		
Agency Ratings	EU 2002/72/EC		
	FDA Food Contact, Unspecified Rating		
	ISO 10993-Part 1		
	USP Unspecified Rating		
Appearance	Black		
Forms	Disc		
	Preformed Parts		
	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.12	%	

Equilibrium, 23°C, 50% RH	0.050	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	102		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Break)	144	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Stress	240	MPa	ISO 178
Compressive Stress (5% Strain)	170	MPa	ISO 604
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
Continuous Use Temperature ¹	250	°C	
Melting Temperature	340	°C	ISO 11357-3
CLTE - Flow (23 to 150°C)	2.5E-4	cm/cm/°C	
Thermal Conductivity	0.92	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+5	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	Long term in Air		

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