Ketron® PEEK LSG

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

KETRON® PEEK LSG natural / black stock shapes are produced frombatches of Victrex PEEK. This material exhibits a unique combination of mechanical properties, temperature and chemical resistance. The composition of the resin used for the production of the KETRON® PEEK LSG stock shapes complies with the regulations that apply in the Member States of the European Union (Directive 2002/72/EC, as amended) and in the United States of America (FDA) for plastic materials and articles intended to come into contact with foodstuffs. KETRON PEEK 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 LSG stock shapes very suitable for applications in the medical, pharmaceutical and biotechnology markets.

General Information	
Features	Biocompatible
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	Good Sterilizability
	Medium Heat Resistance
	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
	Natural Color
Forms	Disc
	Preformed Parts
	Rod
	Tubing

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	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)	105		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4300	MPa	ISO 527-2
Tensile Stress (Break)	115	MPa	ISO 527-2
Tensile Strain (Break)	17	%	ISO 527-2
Flexural Stress	170	MPa	ISO 178
Compressive Stress (5% Strain)	140	MPa	ISO 604
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Continuous Use Temperature [1]	250	°C	
Melting Temperature	340	°C	ISO 11357-3
CLTE - Flow (23 to 150°C)	5.5E-4	cm/cm/°C	
Thermal Conductivity	0.25	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)	3.20		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		

Recommended distributors for this material

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