KetaSpire® KT-880 GF20

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-880 GF20 is a high flow, 20% glass-fiber reinforced grade of polyetheretherketone (PEEK). This resin offers higher strength and stiffness properties relative to unreinforced KetaSpire® PEEK resin. The glass fiber content is optimized to provide a balance of strength and stiffness with toughness-related properties, such as impact resistance and elongation at break. This level of reinforcement also affords greater mechanical robustness in structural applications, particularly those with service temperatures approaching 300°C (572°F).
KetaSpire® PEEK is produced to the highest industry standards and is characterized by a distinct combination of properties, which include excellent wear resistance, best-in-class fatigue resistance, ease of melt processing, high purity and excellent chemical resistance to organics, acids and bases.
These properties make it well-suited for applications in healthcare, transportation, electronics, chemical processing and other industrial uses.

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Features	Autoclave Sterilizable
	Biocompatible
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Fatigue Resistant
	Flame Retardant
	Good Chemical Resistance
	Good Dimensional Stability
	Good Sterilizability
	Heat Sterilizable
	High Flow
	High Heat Resistance
	High Stiffness
	High Strength
	Radiation (Gamma) Resistant
	Radiation Sterilizable
	Radiotranslucent
	Steam Resistant
	Steam Sterilizable
Uses	Aircraft Applications
	Automotive Applications
	Connectors
	Dental Applications
	Electrical/Electronic Applications
	Film
	Hospital Goods
	Industrial Applications

	Medical Devices
	Medical/Healthcare Applications
	Oil/Gas Applications
	Pump Parts
	Seals
	Surgical Instruments

RoHS Compliance	Contact Manufacturer		
Appearance	Tan		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.46	g/cm^3	ISO 1183
Water Absorption (24 hr)	0.022	%	ISO 15512
Ash Content	20	%	ISO 3451-1
Modulus of Elasticity	8.24	GPa	ISO 527
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	162	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2/1A/5
Flexural Modulus	7720	MPa	ISO 178
Flexural Stress	238	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	60	kJ/m^2	ISO 179
Notched Izod Impact Strength	6.0	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature [1]	345	°C	ISO 11357
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	4.0	hr	
Rear Temperature	365	°C	
Middle Temperature	371	°C	
Front Temperature	377	°C	
Nozzle Temperature	382	°C	
Mold Temperature	177 to 204	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.5:1.0 to 3.5:1.0		
NOTE			
1.	DSC First heat		

Recommended distributors for this material

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