KetaSpire® KT-820 GF15

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-820 GF15 is a low flow, 15% 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. The low fiberglass loading gives the resin improved surface aesthetics and reduced anisotropy over comparable 30% glass reinforced formulations.
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 oil & gas, healthcare, transportation, electronics, chemical processing and other industrial uses.
Natural: KT-820 GF15 NT

General Information	
Filler / Reinforcement	Glass Fiber,15% 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**
Specific Gravity	1.40	g/cm³	ASTM D792
Ash Content	15	%	ISO 3451-1
Modulus of Elasticity	6.10	GPa	ASTM D638
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6200	MPa	ASTM D638
Tensile Stress (Break)	124	MPa	ASTM D638
Tensile Strain [1] (Break)	5.0	%	ASTM D638
Flexural Stress	205	MPa	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	9.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	85	kJ/m²	ISO 179
Notched Izod Impact Strength	9.0	kJ/m²	ISO 180
Unnotched Izod Impact Strength	74	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	218	°C	ISO 75-2/A
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.	Type 1A, 5 mm/min		

Recommended distributors for this material

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