KetaSpire® KT-880 CF40

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire KT-880 CF30 is a high fluidity, 30% carbon fiber reinforced polyether ether ketone (PEEK). When the temperature is close to 300 °C, the mechanical properties of carbon fiber reinforced KetaSpire PEEK reach the highest level in the industry and have the lowest linear thermal expansion coefficient of KetaSpire product series. KetaSpire PEEK is processed according to the highest industry standards and is characterized by various excellent properties, including excellent wear resistance, first-class fatigue resistance, easy melt processing, high purity, excellent resistance to organic matter, acids and alkalis and other chemicals. These characteristics make it very suitable for medical care, transportation, electronics, chemical processing and other industrial applications.

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight
Features	Good dimensional stability
	Electron beam disinfection
	Radioactive permeable
	Radiation disinfection
	Rigidity, high
	High strength
	Pressure cooker disinfection
	Good disinfection
	Ethylene oxide disinfection
	Anti-gamma radiation
	High liquidity
	Good chemical resistance
	Fatigue resistance
	Heat resistance, high
	Steam resistance
	thermal disinfection
	Disinfect with steam
	Flame retardancy
Uses	Films
	Pump parts
	Electrical/Electronic Applications
	Aircraft applications
	Industrial application
	Connector
	Seals
	Oil/Gas Supplies
	Surgical instruments
	Dental application field

	Medical/nursing supplies
	Medical equipment
	Medical devices

RoHS Compliance	Contact manufacturer
Appearance	Black
Forms	Particle
Processing Method	Machining
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	33000	MPa	ASTM D638
Tensile Strength	258	MPa	ASTM D638
Tensile Elongation [1] (Break)	1.6	%	ASTM D638
Flexural Modulus	30000	MPa	ASTM D790
Flexural Strength	386	MPa	ASTM D790
Flexural Elongation at Break	1.8	%	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	750	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	332	°C	ASTM D648
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity (400°C, 1000 sec^-1)	490	Pa·s	ASTM D3835
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	4.0	hr	
Rear Temperature	365	°C	
Middle Temperature	370	°C	
Front Temperature	375	°C	
Nozzle Temperature	380	°C	
Mold Temperature	175 - 205	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.5:1.0 - 3.5:1.0		
NOTE			
1.	5.0 mm/min		

Recommended distributors for this material

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