Solvay Specialty Polymers KetaSpire® KT-820 GF13 Polyetheretherketone (PEEK) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

KetaSpire KT-820 is a low flow, 13% glass fiber reinforced grade of polyetheretherketone (PEEK). 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 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 and gas recovery, semiconductor fabrication, automotive, aerospace, healthcare, chemical processing, and other industrial uses. This resin is opaque and beige to light brown in color in its natural state. - Beige: KT-820 GF13 BG20Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-820-GF13-Polyetheretherketone-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Filler Content	13 %	13 %	Glass Fiber Reinforcement
Viscosity	534000 cP @Shear Rate 1000 1/s, Temperature 400 °C	534000 cP @Shear Rate 1000 1/s, Temperature 752 °F	Melt; Internal Method

Mechanical Properties	Metric	English	Comments
Tensile Strength	117 MPa	17000 psi	ASTM D638
Elongation at Break	6.2 %	6.2 %	ASTM D638
Elongation at Yield	3.9 %	3.9 %	ASTM D638
Tensile Modulus	5.90 GPa	856 ksi	ASTM D638
Flexural Strength	203 MPa	29400 psi	ASTM D790
Flexural Modulus	5.60 GPa	812 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256
	10.0 J/cm	18.7 ft-lb/in	ASTM D4218

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa			

Thermal Properties	Metric	English	Comments
(264 psi)	213 °C	415 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	365 °C	689 °F	
Middle Barrel Temperature	370 °C	698 °F	
Front Barrel Temperature	375 °C	707 °F	
Nozzle Temperature	380 °C	716 °F	
Mold Temperature	175 - 205 °C	347 - 401 °F	
Drying Temperature	150 °C	302 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Beige	
	Opaque	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Fatigue Resistant	
	Flame Retardant	
	Good Chemical Resistance	
	Good Dimensional Stability	
	High Heat Resistance	
	High Stiffness	
	High Strength	
Forms	Pellets	
	Powder	
Generic	PEEK	

Descriptive Properties	Value	Comments
Injection Rate	Fast	
Processing Method	Injection Molding	
	Machining	
	Profile Extrusion	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	
Uses	Industrial Applications	
	Medical/Healthcare Applications	
	Oil/Gas Applications	

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