

Solvay Specialty Polymers KetaSpire[®] KT-820 GF13 Polyetheretherketone (PEEK), 13% Glass Fiber

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. Features: Fatigue Resistant; Flame Retardant; Good Chemical Resistance; Good Dimensional Stability; High Heat Resistance; High Stiffness; High Strength. Uses: Industrial Applications; Medical/Healthcare Applications; Oil/Gas Applications. Information 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-13-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Filler Content	13 %	13 %	Glass Fiber
Viscosity	534000 cP @Shear Rate 1000 1/s, Temperature 400 Å°C	534000 cP @Shear Rate 1000 1/s, Temperature 752 Å°F	Melt Viscosity; ASTM D3835

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
Izod Impact, Unnotched	10.0 J/cm	18.7 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>(204 psi)</small> Rear Barrel Temperature at 1.8 MPa	Metric C	English	Comments ; ASTM D648
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Processing Properties	Metric	English	Comments
Rear Barrel Temperature	365 Â°C	689 Â°F	
Middle Barrel Temperature	370 Â°C	698 Â°F	
Front Barrel Temperature	375 Â°C	707 Â°F	
Nozzle Temperature	380 Â°C	716 Â°F	
Mold Temperature	175 - 205 Â°C	347 - 401 Â°F	
Drying Temperature	150 Â°C @Time 14400 sec	302 Â°F @Time 4.00 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Beige; Opaque	
Form	Pellets; Powder	
Injection Rate	Fast	
Processing Technique	Injection Molding; Machining; Profile Extrusion	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	

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