

Solvay Specialty Polymers KetaSpire[®] KT-820 GF15 Polyetheretherketone (PEEK), 15% Glass Fiber

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

Material Notes:

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. 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 Additional Properties: Ash Content - ISO 3451-1 15 %; Modulus of Elasticity - ASTM D638 6.10 GPa Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-820-GF15-Polyetheretherketone-PEEK-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Filler Content	15 %	15 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	ISO 527-2
Elongation at Break	5.0 %	5.0 %	Type 1A, 5 mm/min; ISO 527-2
Tensile Modulus	6.20 GPa	899 ksi	ASTM D638
Flexural Strength	205 MPa	29700 psi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	74.0 kJ/m ²	35.2 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.950 J/cm ²	4.52 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	218 °C	424 °F	

(264 psi) Thermal Properties	Metric	English	Unannealed; ISO 75-2/A Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	365 Â°C	689 Â°F	
Middle Barrel Temperature	371 Â°C	700 Â°F	
Front Barrel Temperature	377 Â°C	711 Â°F	
Nozzle Temperature	382 Â°C	720 Â°F	
Mold Temperature	177 - 204 Â°C	351 - 399 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	Tan	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	

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