

## Solvay Specialty Polymers KetaSpire<sup>®</sup> KT-880 GF20 Polyetheretherketone (PEEK), 20% Glass Fiber

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

### Material Notes:

KetaSpire<sup>®</sup> KT-880 GF20 is a high flow, 20% glass-fiber reinforced grade of polyetheretherketone (PEEK). This resin offers higher strength and stiffness properties relative to unreinforced KetaSpire<sup>®</sup> 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. This level of reinforcement also affords greater mechanical robustness in structural applications, particularly those with service temperatures approaching 300<sup>°</sup>C (572<sup>°</sup>F). 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 20 %; Modulus of Elasticity - ISO 527 8.24 GPa Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-KetaSpire-KT-880-GF20-Polyetheretherketone-PEEK-20-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-880-GF20-Polyetheretherketone-PEEK-20-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ISO 1183
Filler Content	20 %	20 %	Glass Fiber
Water Absorption	0.022 % @Time 86400 sec	0.022 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	ISO 527-2
Elongation at Break	3.5 %	3.5 %	Type 1A, 5 mm/min; ISO 527-2
Flexural Strength	238 MPa	34500 psi	ISO 178
Flexural Modulus	7.72 GPa	1120 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	345 <sup>°</sup> C	653 <sup>°</sup> F	ISO 11357-3

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	

## Contact Songhan Plastic Technology Co.,Ltd.

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