



KetaSpire[®] KT-880 GF30

polyetheretherketone

KetaSpire KT-880 GF30 is the high-flow, 30% glass-fiber reinforced grade of polyetheretherketone (PEEK). This resin offers higher strength and stiffness properties relative to unreinforced KetaSpire PEEK resin. Reinforcement also affords greater mechanical robustness in structural applications, particularly those with service temperatures approaching 300°C.

KetaSpire PEEK is produced to the highest industry standards and is characterized by a distinct combination of properties, which include excellent wear resistance, 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 healthcare, transportation, electronics, chemical processing and other industrial uses.

• Beige: KT-880 GF30 BG 20

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeNorth America	South America
Filler / Reinforcement	 Glass Fiber Reinforcement, 30% Filler by Weight 		
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 Connectors Dental Applications Electrical/Electronic Applications Film 	 Hospital Goods Industrial Applications Medical Appliances Medical/Healthcare Applications Oil/Gas Applications 	Pump PartsSealsSurgical Instruments
Agency Ratings	• ISO 10993	• ISO 10993-Part 1	
RoHS Compliance	 RoHS Compliant 		
Appearance	 Light Beige 		
Forms	Pellets		
Processing Method	 Injection Molding 	Machining	 Profile Extrusion

1.53 g/cm³ 14 g/10 min	ASTM D792 ASTM D1238
14 g/10 min	
	ASTIVI DT238
	ASTM D955
0.20 %	
1.4 %	
0.10 %	ASTM D570
Typical Value Unit	Test Method
10800 MPa	ASTM D638
162 MPa	ASTM D638
	Typical Value Unit 10800 MPa

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Mechanical	Typical Value Unit	Test Method
Tensile Elongation ² (Break)	2.8 %	ASTM D638
Flexural Modulus	10500 MPa	ASTM D790
Flexural Strength	260 MPa	ASTM D790
Impact	Typical Value Unit	Test Method
Notched Izod Impact	69 J/m	ASTM D256
Unnotched Izod Impact	850 J/m	ASTM D256
Thermal	Typical Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Annealed	315 °C	
Glass Transition Temperature (DSC)	147 °C	ASTM D3418
Melting Temperature	343 °C	ASTM D3418
CLTE - Flow (-50 to 50°C)	0.000019 cm/cm/°C	ASTM E831
Fill Analysis	Typical Value Unit	Test Method
Melt Viscosity (400°C, 1000 sec^-1)	350 Pa·s	ASTM D3835
Injection	Typical Value Unit	
Drying Temperature	150 °C	
Drying Time	4.0 hr	
Rear Temperature	365 °C	
Middle Temperature	371 °C	
Front Temperature	377 °C	
Nozzle Temperature	382 °C	
Mold Temperature	177 to 204 °C	
Injection Rate	Fast	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	

Notes

Typical properties: these are not to be construed as specifications.

¹ 5" x 0.5" x 0.125"

² Crystallized

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For assistance with an emergency involving products of Solvay Advanced Polymers, such as a spill, leak, fire, or explosion, call day or night:

Emergency Health Information

USA +1.800.621.4590 International +1.770.772.8577

Emergency Spill Information

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Material Safety Data Sheets (MSDS) for products of Solvay Advanced Polymers are available upon request from your sales representative or by emailing us at advancedpolymers@solvay.com. Always consult the appropriate MSDS before using any of our products.

Property values for individual batches will vary within specification limits. Unless otherwise noted, values shown are typical for uncolored resin; colorants may alter values. For Preliminary Data Sheets, values are typical of limited production and specifications are not yet established.

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