

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

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

KetaSpire KT-820FP is the low-flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color fine powder form suitable for compression molding. 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. The resin is also available as KetaSpire KT-820 NT in a natural-color pellet form for injection molding and extrusion. Injection Notes: Back Pressure: minimum Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-820FP-Polyetheretherketone-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Particle Mesh Size	>= 100 Mesh	>= 100 Mesh	0% Retained on 100 mesh sieve
	>= 140 Mesh	>= 140 Mesh	< 2.0% Retained on 140 mesh sieve

Mechanical Properties	Metric	English	Comments
Tensile Strength	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	20 - 30 %	20 - 30 %	Crystallized; ASTM D638
	>= 60 %	>= 60 %	Quenched; ASTM D638
Elongation at Yield	5.2 %	5.2 %	ASTM D638
Tensile Modulus	3.65 GPa	529 ksi	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	3.86 GPa	560 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature -50.0 - 50.0 $^{\circ}\text{C}$	@Temperature -58.0 - 122 $^{\circ}\text{F}$	
Melting Point	340 $^{\circ}\text{C}$	644 $^{\circ}\text{F}$	ASTM D3417
Deflection Temperature at 1.8 MPa (264 psi)	162 $^{\circ}\text{C}$	324 $^{\circ}\text{F}$	Unannealed; ASTM D648
Glass Transition Temp, Tg	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	ASTM D3417

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Ductile	
	Fatigue Resistant	
	Flame Retardant	
	Good Chemical Resistance	
	Good Dimensional Stability	
	Good Impact Resistance	
	High Heat Resistance	
Forms	Powder	
Generic	PEEK	
Processing Method	Compression Molding	
Uses	Electrical/Electronic Applications	
	Industrial Applications	
	Oil/Gas Applications	

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