

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

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. Features: Ductile; Fatigue Resistant; Flame Retardant; Good Chemical Resistance; Good Dimensional Stability; Good Impact Resistance; High Heat Resistance. Uses: Electrical/Electronic Applications; Industrial Applications; Oil/Gas Applications. Injection Molding Notes: Back Pressure: minimum. Additional Properties: Particle Size - < 0.00 %; Particle Size - < 2.00 % 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.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength	96.5 MPa	14000 psi	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
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 Åµm/m-Å°C @Temperature -50.0 - 50.0 Å°C	23.9 Åµin/in-Å°F @Temperature -58.0 - 122 Å°F	1
Melting Point	340 Å°C	644 Å°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	162 Å°C	324 Å°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	150 A C	500 A F	100

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Powder	
Processing Technique	Compression Molding	

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