

Solvay Specialty Polymers KetaSpire® KT-850P Polyetheretherketone (PEEK)

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

Material Notes:

KetaSpire® KT-850P is the intermediate-flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color coarse powder form. 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. KetaSpire® KT-850P can be easily processed using typical injection molding and extrusion processes. The resin is also available as KetaSpire® KT-850 NT in a natural-color pellet form. Features: Fatigue Resistant; Flame Retardant; Good Chemical Resistance; Good Dimensional Stability; High Heat Resistance Uses: Aircraft Applications; Automotive Applications; Bearings; Bushings; Compounding; Electrical/Electronic Applications; Film; Industrial Applications; Medical/Healthcare Applications; Oil/Gas Applications; Seals; Tubing Injection Molding 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-850P-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
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 400 °C	10 g/10 min @Load 4.76 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	20 - 30 %	20 - 30 %	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
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Thermal Properties CTE, linear, Parallel to Flow	43.0 Åum/m-Å°C Metric	23.9 Åuin/in-Å°F English	Comments
	@Temperature -50.0 - 50.0 Å°C	@Temperature -58.0 - 122 Å°F	
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
Glass Transition Temp, Tg	150 Å°C	302 Å°F	DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	354 Å°C	669 Å°F	
Middle Barrel Temperature	366 Å°C	691 Å°F	
Front Barrel Temperature	371 Å°C	700 Å°F	
Nozzle Temperature	374 Å°C	705 Å°F	
Mold Temperature	177 - 204 Å°C	351 - 399 Å°F	
Drying Temperature	149 Å°C @Time 14400 sec	300 Å°F @Time 4.00 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Powder	
Injection Rate	Fast	
Processing Technique	Compression Molding; Electrostatic Spray Coating	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	

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