Solvay Specialty Polymers KetaSpire® KT-850 Polyetheretherketone (PEEK) (Unverified Data**)

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

Material Notes:

KetaSpire KT-850 is the intermediate-flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color pellet 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. These properties make it well-suited for applications in healthcare, transportation, electronics, chemical processing and other industrial uses. - Natural: KT-850 NTInjection Notes: Back Pressure: minimumInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-850-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 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Viscosity	380000 cP @Shear Rate 1000 1/s, Temperature 400 °C	380000 cP @Shear Rate 1000 1/s, Temperature 752 °F	Melt; ASTM D3835
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.18 mm	0.012 in/in @Thickness 0.125 in	5" x 0.5" x 0.125" bar; ASTM D955
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 3.18 mm	0.014 in/in @Thickness 0.125 in	5" x 0.5" x 0.125" bar; ASTM D955
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
Hardness, Shore D	88 @Time 1.00 sec	88 @Time 0.000278 hour	ASTM D2240
Tensile Strength	96.5 MPa	14000 psi	51 mm/min; ASTM D638
Elongation at Break	20 - 30 %	20 - 30 %	51 mm/min; ASTM D638
	>= 50 %	>= 50 %	5.1 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	5.2 %	5.2 %	51 mm/min; ASTM D638
Tensile Modulus	3.65 GPa	529 ksi	51 mm/min; ASTM D638
Flexural Strength	146 MPa	21200 psi	ASTM D790
Flexural Modulus	3.70 GPa	537 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256
	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 µm/m-°C @Temperature -50.0 - 50.0 °C	23.9 µin/in-°F @Temperature -58.0 - 122 °F	TMA; ASTM E831
Melting Point	340 °C	644 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	Annealed; ASTM D648
Glass Transition Temp, Tg	150 °C	302 °F	ASTM D3418

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	355 °C	671 °F	
Middle Barrel Temperature	365 °C	689 °F	
Front Barrel Temperature	370 °C	698 °F	
Nozzle Temperature	375 °C	707 °F	
Mold Temperature	175 - 205 °C	347 - 401 °F	
Drying Temperature	150 °C	302 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

South America

Descriptive Properties	Value	Comments
Features	Ductile	
	Fatigue Resistant	
	Flame Retardant	
	Good Chemical Resistance	
	Good Dimensional Stability	
	Good Impact Resistance	
	High Heat Resistance	
Forms	Pellets	
Generic	PEEK	
Injection Rate	Fast	
Processing Method	Extrusion Blow Molding	
	Film Extrusion	
	Injection Molding	
	Machining	
	Profile Extrusion	
	Thermoforming	
	Wire & Cable Extrusion	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	
Uses	Aircraft Applications	
	Automotive Applications	
	Bearings	
	Bushings	
	Compounding	
	Electrical/Electronic Applications	
	Film	
	Industrial Applications	

Descriptive Properties	Value	Comments
	Medical/Healthcare Applications	
	Oil/Gas Applications	
	Seals	
	Tubing	

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