

Solvay Specialty Polymers KetaSpire® KT-820 SL10 Polyetheretherketone (PEEK) (Unverified Data**)

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

Material Notes:

Ketaspire KT-820 SL10 is a polyetheretherketone (PEEK) based compound designed to offer enhanced lubricity and reduced friction compared to standard PEEK. Unlike other grades formulated for wear resistance, this grade offers high lubricity while retaining outstanding ductility and toughness that surpasses that of unmodified high viscosity PEEK. Also, this product offers high melt flow, which allows injection molding of thin, intricate, or complex parts. In addition to these differentiating features, this resin also offers the outstanding combination of ultra-performance attributes commonly known for PEEK. These include: mechanical strength and stiffness even at elevated temperatures, long term thermal-oxidative stability, fatigue resistance, and excellent chemical resistance to a broad range of harsh chemical environments including acids, bases, and organics. The attractive combination of properties make Ketaspire KT-820 SL10 suitable for applications in transportation, electronics, chemical processing, and industrial uses including oil and gas exploration and production. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-820-SL10-Polyetheretherketone-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Viscosity	170 cP @Shear Rate 1000 1/s, Temperature 400 °C	170 cP @Shear Rate 1000 1/s, Temperature 752 °F	Melt; ASTM D3835
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm @Thickness 3.20 mm	0.012 - 0.014 in/in @Thickness 0.126 in	5" x 0.5" x 0.125" bars; ASTM D955
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm @Thickness 3.20 mm	0.016 - 0.018 in/in @Thickness 0.126 in	5" x 0.5" x 0.125" bar; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83 @Time 1.00 sec	83 @Time 0.000278 hour	ASTM D2240
Tensile Strength	88.0 MPa	12800 psi	50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	50 mm/min; ASTM D638
	60 %	60 %	ISO 527-2/1A/50

Elongation at Yield Mechanical Properties	5.2% Metric	5.2% English	50 mm/min; ASTM D638 Comments
Tensile Modulus	3.60 GPa	522 ksi	50 mm/min; ASTM D638
Flexural Strength	134 MPa	19400 psi	ASTM D790
Flexural Yield Strength	134 MPa	19400 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
	NB	NB	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	365 °C	689 °F	
Middle Barrel Temperature	370 °C	698 °F	
Front Barrel Temperature	375 °C	707 °F	
Nozzle Temperature	380 °C	716 °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	Black	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Fatigue Resistant	
	Flame Retardant	

Descriptive Properties	Good Chemical Resistance Value	Comments
	Good Dimensional Stability	
	Good Wear Resistance	
	High Heat Resistance	
Forms	Pellets	
Generic	PEEK	
Injection Rate	Fast	
Processing Method	Injection Molding	
	Machining	
	Profile Extrusion	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	
Uses	Film	
	Industrial Applications	
	Oil/Gas Applications	
	Profiles	
	Rods	
	Sheet	
	Tubing	

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