

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

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. These properties make it well-suited for applications in healthcare, transportation, electronics, chemical processing, and other industrial uses. 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. 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-850P-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
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
	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
	43.0 µm/m-°C	23.9 µin/in-°F	

Thermal Properties	Metric	English	Comments
CTE (longitudinal) to Flow	@ Temperature -50.0 - 50.0 °C	@ Temperature -58.0 - 122 °F	TMA - ASTM E831
Melting Point	340 °C	644 °F	ASTM D3417
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	Unannealed; ASTM D648
Glass Transition Temp, Tg	150 °C	302 °F	ASTM D3417

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	354 °C	669 °F	
Middle Barrel Temperature	366 °C	691 °F	
Front Barrel Temperature	371 °C	700 °F	
Nozzle Temperature	374 °C	705 °F	
Mold Temperature	177 - 204 °C	351 - 399 °F	
Drying Temperature	149 °C	300 °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	
Features	Fatigue Resistant	
	Flame Retardant	
	Good Chemical Resistance	
	Good Dimensional Stability	
	High Heat Resistance	
Forms	Powder	
Generic	PEEK	

Injection Rate Descriptive Properties	Fast Value	Comments
Processing Method	Compression Molding	
	Electrostatic Spray Coating	
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	
	Medical/Healthcare Applications	
	Oil/Gas Applications	
	Seals	
	Tubing	

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