KetaSpire® KT-850P

Polyetheretherketone

Solvay Specialty Polymers

Message:

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.

General Information	
UL YellowCard	E140728-100211982
Features	Good dimensional stability Good chemical resistance Fatigue resistance Heat resistance, high Flame retardancy
Uses	Films Bushing Electrical/Electronic Applications Aircraft applications Composite Industrial application Pipe fittings Seals Application in Automobile Field Oil/Gas Supplies Medical/nursing supplies Bearing
RoHS Compliance	Contact manufacturer
Appearance	Natural color
Forms	Powder
Processing Method	Electrostatic jet coating Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	10	g/10 min	ASTM D1238

Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3650	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	ASTM D638
Fracture	20 - 30	%	ASTM D638
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	69	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	162	°C	ASTM D648
Glass Transition Temperature	150	°C	ASTM D3417
Melting Temperature	340	°C	ASTM D3417
CLTE - Flow (-50 to 50°C)	4.3E-5	cm/cm/°C	ASTM E831
Injection	**Nominal Value**	**Unit**	
Drying Temperature	149	°C	
Drying Time	4.0	hr	
Rear Temperature	354	°C	
Middle Temperature	366	°C	
Front Temperature	371	°C	
Nozzle Temperature	374	°C	
Mold Temperature	177 - 204	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.5:1.0 - 3.5:1.0		

Injection instructions

Back Pressure: minimum

Recommended distributors for this material

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