KetaSpire® KT-820P

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-820P is a low 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-820P is intended for extrusion compounding. This powder is also available as KT-820NT in a natural-color pellet form for injection molding.

General Information			
UL YellowCard	E140728-100211981		
Features	Ductile		
	Fatigue Resistant		
	Flame Retardant		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
	Industrial Applications		
	Semiconductor Molding Compounds		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Powder		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength	96.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	
Break [1]	20 to 30	%	
Break [2]	> 60	%	
Flexural Modulus	3900	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact	70	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
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
NOTE			
1.	Crystallized		
2.	Quenched		

Recommended distributors for this material

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