KetaSpire® KT-820SFP

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-820SFP is the low flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-colored, super-fine powder form. This super-fine PEEK powder is suitable for water-borne coatings, electrostatically driven powder coatings, and resin pre-impregnation of continuous fiber composites. This super-fine powder is produced to a median particle size D50 of about 30 micrometers.
KetaSpire® PEEK is produced to the highest industry standards and is characterized by a distinct combination of properties, which include excellent chemical resistance to acids, bases and a broad range of aggressive organic chemicals, best in class fatigue resistance, high thermal resistance, high purity and ease of melt processing.
These properties make KT-820SFP well-suited for applications in health care, transportation, electronics, chemical processing and other industrial uses.
The resin is also available in a natural-colored pellet form under the grade name KT-820 NT for injection molding and extrusion

General Information	
Features	Good dimensional stability Impact resistance, good Good chemical resistance Fatigue resistance Heat resistance, high ductility Flame retardancy
Uses	Electrical/Electronic Applications Industrial application Aerospace applications Application in Automobile Field Oil/Gas Supplies
RoHS Compliance	Contact manufacturer
Appearance	Natural color
Forms	Powder
Processing Method	Water-borne Coating Electrostatic jet coating

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Particle Size			
D50	30.0	µm	
D90	60.0	µm	
D99	125	µm	

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 [1]	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)	157	°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 instructions			
Back Pressure: minimum			
NOTE			
1.	Tensile test speed = 2 in/min (50 mm/min)		

Recommended distributors for this material

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