# KetaSpire® KT-820UFP

### Polyetheretherketone

Solvay Specialty Polymers

#### Message:

KetaSpire® KT-820UFP is the low flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-colored, ultra-fine powder form. This ultra-fine PEEK powder is suitable for water-borne coatings, electrostatically driven powder coatings and resin pre-impregnation of continuous fiber composites. This ultra-fine powder is produced to a median particle size D50 of about 10 micrometers.

KetaSpire <sup>®</sup> 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-820UFP well-suited for applications in healthcare, 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	10.0	μm			
D90	16.0	μm			
D99	26.0	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 <sup>1</sup>	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					
	Tensile test speed = 2 in/min (50				
1					

1.

mm/min)

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#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

