

KetaSpire® KT-820FP

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-820FP is the low-flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color fine powder form suitable for compression molding.

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.

The resin is also available as KetaSpire® KT-820 NT in a natural-color pellet form 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		
	Oil/Gas Supplies		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Powder		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Particle Size			
Keep on the screen for 100 purposes		%	
Keep on the screen for 140 purposes		%	
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
Fracture ²	> 60	%	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 instructions			
Back Pressure: minimum			
NOTE			
1.	Crystallization		
2.	Quenching		

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