KetaSpire® KT-1211FP

polyetheretherketone

KetaSpire® KT-1211FP is a low melt flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural color fine powder form for compression molding and compounding uses in the health care industry.

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. KetaSpire® PEEK also complies with the ISO 10993 standard for use in medical applications.

KetaSpire® KT-1211FP is well-suited as a raw material or material of construction for a variety of healthcare applications.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Chemical Resistant • Ductile • Fatigue Resistant • Flame Retardant	• Good Dimensional Stability • Good Impact Resistance • High Heat Resistance
Agency Ratings	• ISO 10993	
RoHS Compliance	• Contact Manufacturer	
Appearance	• Natural Color	
Forms	• Powder	
Processing Method	• Compression Molding	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.30		ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Particle Size			
Retained on 100 mesh sieve	< 0.00	%	
Retained on 140 mesh sieve	< 2.00	%	

Mechanical	Typical Value	Unit	Test method
Tensile Modulus	3650	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	
Break [1]	> 60	%	
Break [2]	20 to 30	%	
Flexural Modulus	3860	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790

Impact	Typical Value	Unit	Test method
Notched Izod Impact	69	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256

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Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	162	°C	
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

Notes

Typical properties: these are not to be construed as specifications.

[1] Quenched

[2] Crystallized

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