

# 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	<ul> <li>Commercial: Active</li> </ul>			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li><li> Europe</li></ul>	=-	atin America orth America	
Features	<ul><li>Chemical Resistant</li><li>Ductile</li><li>Fatigue Resistant</li><li>Flame Retardant</li></ul>	• G	<ul><li>Good Dimensional Stability</li><li>Good Impact Resistance</li><li>High Heat Resistance</li></ul>	
Agency Ratings	• ISO 10993			
RoHS Compliance	<ul> <li>Contact Manufacturer</li> </ul>			
Appearance	Natural Color			
Forms	<ul> <li>Powder</li> </ul>			
Processing Method	<ul> <li>Compression Molding</li> </ul>			
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 <sup>1</sup>		> 60	%	
Break <sup>2</sup>		20 to 30	%	
Flexural Modulus		3860	MPa	ASTM D790
Flexural Strength		152	МРа	ASTM D790

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Impact	Typical Value Unit	Test method
Notched Izod Impact	69 J/m	ASTM D256
Unnotched Izod Impact	No Break	ASTM D4812
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**

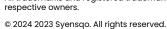
Typical properties: these are not to be construed as specifications.

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<sup>&</sup>lt;sup>1</sup> Quenched

<sup>&</sup>lt;sup>2</sup> Crystallized