

KetaSpire® KT-820P

polyetheretherketone

KetaSpire® KT-820P is a low flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color coarse powder form. 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. KetaSpire® KT-820P is intended for extrusion compounding. This powder is also available as KT-820NT in a natural-color pellet form for injection molding.

General

Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific Europe	Latin America North America		
Features	Chemical ResistantDuctileFatigue ResistantFlame Retardant	 Good Impact Re 	Good Dimensional StabilityGood Impact ResistanceHigh Heat Resistance	
Uses	Electrical/Electronic ApplicationsIndustrial Applications	• Semiconductor	Semiconductor Applications	
RoHS Compliance	 RoHS Compliant 			
Appearance	Natural Color			
Forms	 Powder 			
Processing Method	 Compression Molding 			
Physical	Typical	Value Unit	Test method	
Density / Specific Gravity		1.30	ASTM D792	
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)		3.0 g/10 min	ASTM D1238	
Water Absorption (24 hr)		0.10 %	ASTM D570	
Mechanical	Typical	Value Unit	Test method	
Tensile Modulus		3600 MPa	ASTM D638	
Tensile Strength		96.0 MPa	ASTM D638	
Tensile Elongation			ASTM D638	
Yield		5.2 %		
Break ¹		> 60 %		
Break ²	20	to 30 %		
Flexural Modulus		3900 MPa	ASTM D790	
Flexural Strength		152 MPa	ASTM D790	

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Impact	Typical Value Unit	Test method
Notched Izod Impact	70 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
Fill Analysis	Typical Value Unit	Test method
Melt Viscosity (400°C, 1000 sec^-1)	420 Pa∙s	ASTM D3835

Notes

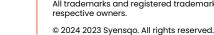
Typical properties: these are not to be construed as specifications.

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¹ Quenched

² Crystallized