

KetaSpire® KT-810

Polyetheretherketone
Solvay Specialty Polymers

Message:

KetaSpire KT -820 is a low flow grade unreinforced polyetheretherketone (PEEK), which is lubricating granular. KetaSpire PEEK is processed according to the highest industry standards and is characterized by different properties, including excellent wear resistance, first-class fatigue resistance, easy melt processing, high purity, excellent resistance to organic matter, acids and alkalis and other chemical substances. These characteristics make it very suitable for medical care, transportation, electronics, chemical processing and other industrial applications. KetaSpireKT -820 can be easily processed using conventional injection molding and extrusion processes. There is a natural color coarse powder grade KetaSpire KT-820P for mixing. Granular KT- 820 is sprayed with lubricant calcium stearate (0.01%) to facilitate the transportation of particles in plasticizing screw. There are low flow grades KetaSpire KT-820 NL similar to non-lubricated natural colors available.
black: KT-820 BK 95

General Information	
Additive	Lubricant
Features	Good dimensional stability
	Electron beam disinfection
	Radioactive permeable
	Radiation disinfection
	Pressure cooker disinfection
	Good disinfection
	Ethylene oxide disinfection
	Anti-gamma radiation
	Impact resistance, good
	Good chemical resistance
	Fatigue resistance
	Heat resistance, high
	Steam resistance
	thermal disinfection
	ductility
	Disinfect with steam
	Flame retardancy
Uses	Films
	Pump parts
	Gear
	Electrical/Electronic Applications
	Aircraft applications
	Industrial application
	Pipe fittings
	Connector
	Seals

Application in Automobile Field

Oil/Gas Supplies

Surgical instruments

Shell

Dental application field

Medical/nursing supplies

Medical equipment

Medical devices

Agency Ratings	ISO 10993
	ISO 10993-Part I
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Powder
	Particle 2
Processing Method	Film extrusion
	Wire & Cable Extrusion
	Machining
	Extrusion blow molding
	Thermoforming
	Profile extrusion molding
	Compression molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ASTM D638
Tensile Strength (Yield)	94.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	ASTM D638
Fracture	25 - 50	%	ASTM D638
Flexural Modulus	3700	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load ¹ (1.8 MPa, Annealed, 3.20 mm)	157	°C	ASTM D648
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C, 1000 sec ⁻¹)	510 - 650	Pa·s	ASTM D3835

Additional Information

标准包装及标签 - 根据订单数量,KetaSpire树脂可用聚乙烯桶或纸箱包装.单独包装上清楚列明品名,颜色,批号,净重.

Injection	Nominal Value	Unit
Drying Temperature	150	°C
Drying Time	4.0	hr
Rear Temperature	355	°C
Middle Temperature	365	°C
Front Temperature	370	°C
Nozzle Temperature	375	°C
Mold Temperature	175 - 205	°C
Injection Rate	Fast	
Screw Compression Ratio	2.5:1.0 - 3.5:1.0	

Injection instructions

干燥: - KetaSpire聚醚醚树脂必须在熔融加工前,彻底干燥.否则,容易造成成型部件形成表面条纹甚至严重起泡等程度不同的缺陷.塑料粒子可以在循环空气烘箱中的托盘或除湿料斗干燥机上干燥.干燥条件建议:150 °C(300 °F)温度下4小时. 注塑成型:

KetaSpire聚醚树脂可以容易地在大多数螺杆注塑机上注射成型.因背压最小,建议采用压缩比为2.5 ~ 3.5:1的通用螺杆

,作为是最小背压.注射速度应该尽可能快,使产品外观均匀一致.建议模具温度范围为175 ~205 °C (350 °F~400 °F).建议机筒起始温度按下表所示.

NOTE

1. 200°C,2 hours

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