KetaSpire® KT-820 NL

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire KT -820 NL is low flow unreinforced polyetheretherketone (PEEK) and is supplied in non-lubricating natural particles. KetaSpire PEEK is produced according to the highest standards in the industry and is characterized by various excellent properties, including excellent wear resistance, first-class fatigue resistance, easy melt processing, high purity, excellent resistance to organic matter, acids and alkalis and other chemicals. These characteristics make it very suitable for medical care, transportation, electronics, chemical processing and other industrial applications. The resin also has natural color crude powder grade KetaSpire KT-820P for mixing.
natural color (NT) or black (BK 95) lubricating resin KT-820 are also available. Calcium stearate (0.01%) was sprayed on lubricating grade to help plastic particles be transported in plasticizing screw.

General Information	
Features	Good dimensional stability Impact resistance, good Good chemical resistance Fatigue resistance Heat resistance, high ductility Flame retardancy
Uses	Films Electrical/Electronic Applications Aircraft applications Industrial application Application in Automobile Field Oil/Gas Supplies Medical/nursing supplies
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle 2
Processing Method	Machining Profile extrusion molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955

Transverse flow	1.8	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec)	88		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	3500	MPa	ASTM D638
--	3830	MPa	ISO 527-2/1A/1
Tensile Stress			
Yield	96.0	MPa	ISO 527-2/1A/50
-- [2]	95.0	MPa	ASTM D638
Tensile Elongation			
Yield [3]	5.2	%	ASTM D638
Yield	4.9	%	ISO 527-2/1A/50
Fracture [4]	20 - 30	%	ASTM D638
Fracture	20 - 30	%	ISO 527-2/1A/50
Flexural Modulus	3700	MPa	ASTM D790
Flexural Strength	146	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	91	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	157	°C	ASTM D648
Glass Transition Temperature	150	°C	ASTM D3418
Peak Melting Temperature	340	°C	ASTM D3418
CLTE - Flow (-50 to 50°C)	4.3E-5	cm/cm/°C	ASTM E831
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.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	50 mm/min

Recommended distributors for this material

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