AvaSpire® AV-481

Polyaryletherketone

Solvay Specialty Polymers

Message:

KetaSpire KT- 880 is highly flowing, unreinforced polyetheretherketone (PEEK) and is granular. KetaSpire PEEK is processed according to the highest industry standards 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. KetaSpire KT-880 NT can be easily processed by conventional injection molding process. The resin has natural color coarse powder grade KT-880P for mixing. Granular KT- 880 is sprayed with lubricant calcium stearate (0.01%) to facilitate the transportation of particles in plasticizing screw. There are low flow grades KetaSpire KT-880 NL similar to non-lubricated natural colors available.
Black: KT-880 BK 95
Natural: KT-880 NT

General Information			
Features	Good dimensional stability Impact resistance, good High liquidity Good chemical resistance Fatigue resistance Heat resistance, high ductility		
Uses	Electrical/Electronic Applications Aircraft applications Industrial application Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Black Beige		
Forms	Particle 2		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			ASTM D792
-- [1]	1.33	g/cm³	ASTM D792
-- [2]	1.34	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	55	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3200	MPa	ASTM D638

Tensile Strength	97.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.3	%	ASTM D638
Fracture	> 15	%	ASTM D638
Flexural Modulus	3300	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
Instrumented Dart Impact	78.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.20 mm)	208	°C	ASTM D648
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (400°C, 1000 sec^-1)	170	Pa·s	ASTM D3835
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		
NOTE			
1.	AvaSpire® AV-481 BK 95		
2.	AvaSpire® AV-481 BG 15		

Recommended distributors for this material

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