KetaSpire® KT-880 NL

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-880 NL is a high flow grade of unreinforced polyetheretherketone (PEEK) supplied in non-lubricated, natural-color pellet 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-880 NL can be easily processed using typical injection molding processes. This resin is also available as KT-880P in a natural-color coarse powder form for compounding.
A lubricated form of the resin is available as KT-880 in either natural (NT) or black (BK 95). The lubricated version is lightly dusted with calcium stearate (0.1% level) to aid with pellet conveyance in plastication screws.

General Information	
Features	Ductile
	Fatigue Resistant
	Flame Retardant
	Good Chemical Resistance
	Good Dimensional Stability
	Good Impact Resistance
	High Flow
	High Heat Resistance
Uses	Aircraft Applications
	Connectors
	Electrical/Electronic Applications
	Film
	Industrial Applications
	Medical/Healthcare Applications
	Oil/Gas Applications
	Pump Parts
	Seals
RoHS Compliance	Contact Manufacturer
Appearance	Natural Color
Forms	Pellets 2
Processing Method	Injection Molding
	Machining
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792

Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	36	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.7	%	
Across Flow	1.8	%	
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3700	MPa	ASTM D638
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	
Break	10 to 20	%	
Flexural Modulus	3800	MPa	ASTM D790
Flexural Strength	153	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	53	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Glass Transition Temperature	147	°C	ASTM D3418
Peak Melting Temperature	343	°C	ASTM D3418
CLTE - Flow (-50 to 50°C)	5.0E-5	cm/cm/°C	ASTM E831
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 to 205	°C	
Injection Rate	Fast		
Screw Compression Ratio	2.5:1.0 to 3.5:1.0		

Recommended distributors for this material

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