

Solvay Specialty Polymers KetaSpire® KT-880 NL Polyetheretherketone (PEEK) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-KetaSpire-KT-880-NL-Polyetheretherketone-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ASTM D955
Melt Flow	36 g/10 min @Load 2.16 kg, Temperature 400 °C	36 g/10 min @Load 4.76 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	100 MPa	14500 psi	ASTM D638
Elongation at Break	10 - 20 %	10 - 20 %	ASTM D638
Elongation at Yield	5.2 %	5.2 %	ASTM D638
Tensile Modulus	3.70 GPa	537 ksi	ASTM D638
Flexural Strength	153 MPa	22200 psi	ASTM D790
Flexural Modulus	3.80 GPa	551 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Mechanical Properties	^{NB} Metric	^{NB} English	^{ASTM D256} Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C @Temperature -50.0 - 50.0 °C	27.8 µin/in-°F @Temperature -58.0 - 122 °F	TMA; ASTM E831
Melting Point	343 °C	649 °F	Peak; ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Unannealed; ASTM D648
Glass Transition Temp, Tg	147 °C	297 °F	ASTM D3418

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	355 °C	671 °F	
Middle Barrel Temperature	365 °C	689 °F	
Front Barrel Temperature	370 °C	698 °F	
Nozzle Temperature	375 °C	707 °F	
Mold Temperature	175 - 205 °C	347 - 401 °F	
Drying Temperature	150 °C	302 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Ductile	
	Fatigue Resistant	
	Flame Retardant	
	Good Chemical Resistance	

Descriptive Properties	Good Dimensional Stability Value	Comments
	Good Impact Resistance	
	High Flow	
	High Heat Resistance	
Forms	Pellets	non-lubricated
Generic	PEEK	
Injection Rate	Fast	
Processing Method	Injection Molding	
	Machining	
	Profile Extrusion	
Screw Compression Ratio	2.5:1.0 to 3.5:1.0	
Uses	Aircraft Applications	
	Connectors	
	Electrical/Electronic Applications	
	Film	
	Industrial Applications	
	Medical/Healthcare Applications	
	Oil/Gas Applications	
	Pump Parts	
	Seals	

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