

KetaSpire® KT-880P

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-880P is a high flow grade of unreinforced polyetheretherketone (PEEK) supplied in a natural-color coarse powder 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-880P is intended for extrusion compounding. This powder is also available as KT-880NT in a natural-color pellet form for injection molding.

| General Information | |
|---------------------|------------------------------------|
| UL YellowCard | E140728-100211983 |
| Features | Ductile |
| | Fatigue Resistant |
| | Flame Retardant |
| | Good Chemical Resistance |
| | Good Dimensional Stability |
| | Good Impact Resistance |
| | High Flow |
| | High Heat Resistance |
| Uses | Electrical/Electronic Applications |
| | Industrial Applications |
| | Semiconductor Molding Compounds |
| RoHS Compliance | RoHS Compliant |
| Appearance | Natural Color |
| Forms | Powder |
| Processing Method | Compression Molding |
| | Electrostatic Spray Coating |

| Physical | Nominal Value | Unit | Test Method |
|-------------------------------------------|---------------|-------------------|-------------|
| Specific Gravity | 1.30 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (400°C/2.16 kg) | 36 | g/10 min | ASTM D1238 |
| Water Absorption (24 hr) | 0.10 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3800 | MPa | ASTM D638 |
| Tensile Strength | 100 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 5.2 | % | |
| Break ¹ | 10 to 20 | % | |


| | | | |
|---------------------------------------------------------|---------------|----------|-------------|
| Break ² | > 60 | % | |
| Flexural Modulus | 3900 | MPa | ASTM D790 |
| Flexural Strength | 152 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 43 | 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) | 159 | °C | ASTM D648 |
| Glass Transition Temperature | 147 | °C | ASTM D3417 |
| Melting Temperature | 343 | °C | ASTM D3417 |
| CLTE - Flow (-50 to 50°C) | 5.0E-5 | cm/cm/°C | ASTM E831 |
| NOTE | | | |
| 1. | Crystallized | | |
| 2. | Quenched | | |

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