

PolyOne Trilliant™ HC HC9820-0030 RS Natural Polyetheretherketone (PEEK)

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

Material Notes:

The Trilliant® specialty compounds offer a complete system of specialty engineered materials, certified processes, services and technical support that enable healthcare OEM's to get to market ahead of the competition. When specified, Trilliant® compounds may incorporate agency rated materials that meet USP Class VI, FDA or ISO 10993 testing requirements. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-HC9820-0030-RS-Natural-Polyetheretherketone-PEEK.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|--------------|-----------|
| Specific Gravity | 1.51 g/cc | 1.51 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|------------------------------|
| Tensile Strength, Yield | 177 MPa | 25700 psi | Type I, 51 mm/min; ASTM D638 |
| Elongation at Break | 9.0 % | 9.0 % | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 259 MPa | 37600 psi | ASTM D790 |
| Flexural Modulus | 8.96 GPa | 1300 ksi | ASTM D790 |
| Izod Impact, Notched | 1.20 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 2.25 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------------|----------------------------------|---------------------|
| Melting Point | 360 - 382 °C | 680 - 720 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | >= 245 °C @Thickness 3.18 mm | >= 473 °F @Thickness 0.125 in | Annealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Mold Temperature | 163 - 177 °C | 325 - 351 °F | |
| Drying Temperature | 104 °C | 219 °F | |
| Dry Time | 3.00 hour | 3.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|---|----------|
| Agency Ratings | USP Class VI | |
| Appearance | Natural Color | |
| Features | Biocompatible | |
| | Good Chemical Resistance | |
| | Medium Impact Resistance | |
| | Specialty Grade | |
| Filler / Reinforcement | Glass Fiber Reinforcement, 30% Filler by Weight | |
| Forms | Pellets | |
| Generic Material | PEEK | |
| Generic Name | Polyetheretherketone (PEEK) | |
| Processing Method | Injection Molding | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | High Temperature Applications | |
| | Hospital Goods | |
| | Medical/Healthcare Applications | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China