

Plaslube® PEEK 6112

Polyetheretherketone
Techmer Engineered Solutions

Message:

Plaslube® PEEK 6112 is a Polyetheretherketone (PEEK) product. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

| General Information | | | |
|---|-------------------|-------------------|-------------|
| Features | Lubricated | | |
| Appearance | Colors Available | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.37 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.12 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.12 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 82.7 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 3450 | MPa | ASTM D790 |
| Flexural Strength | 124 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 53 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 316 | °C | ASTM D648 |
| CLTE - Flow | 4.7E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+14 | ohms · cm | ASTM D257 |
| Dielectric Strength | 12 | kV/mm | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.800 mm) | V-0 | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Time | 2.0 to 4.0 | hr | |
| Rear Temperature | 360 to 388 | °C | |
| Middle Temperature | 360 to 388 | °C | |
| Front Temperature | 360 to 388 | °C | |
| Processing (Melt) Temp | 360 to 382 | °C | |
| Mold Temperature | 177 to 218 | °C | |
| Back Pressure | 0.345 to 0.689 | MPa | |

Screw Speed

50 to 100

rpm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

