

## LATI Larpeek 10 PEEK

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

### Material Notes:

Polyetheretherketone (PEEK). Unfilled. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-Larpeek-10-PEEK.php](http://www.lookpolymers.com/polymer_LATI-Larpeek-10-PEEK.php)

| Physical Properties               | Metric               | English                   | Comments |
|-----------------------------------|----------------------|---------------------------|----------|
| Density                           | 1.30 g/cc            | 0.0470 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow       | 0.0080 - 0.012 cm/cm | 0.0080 - 0.012 in/in      |          |
| Linear Mold Shrinkage, Transverse | 0.0090 - 0.013 cm/cm | 0.0090 - 0.013 in/in      |          |

| Mechanical Properties     | Metric                | English               | Comments |
|---------------------------|-----------------------|-----------------------|----------|
| Tensile Strength at Break | 25.0 MPa              | 3630 psi              |          |
|                           | @Temperature 150 Â°C  | @Temperature 302 Â°F  |          |
|                           | 55.0 MPa              | 7980 psi              |          |
|                           | @Temperature 120 Â°C  | @Temperature 248 Â°F  |          |
|                           | 65.0 MPa              | 9430 psi              |          |
|                           | @Temperature 90.0 Â°C | @Temperature 194 Â°F  |          |
|                           | 80.0 MPa              | 11600 psi             |          |
|                           | @Temperature 60.0 Â°C | @Temperature 140 Â°F  |          |
|                           | 90.0 MPa              | 13100 psi             |          |
|                           | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F |          |
| Elongation at Break       | 30 %                  | 30 %                  |          |
|                           | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F |          |
|                           | 30 %                  | 30 %                  |          |
|                           | @Temperature 60.0 Â°C | @Temperature 140 Â°F  |          |
|                           | 30 %                  | 30 %                  |          |

| Mechanical Properties            | @Temperature 90.0<br>Metric<br>°C | @Temperature 194 °F<br>English | Comments |
|----------------------------------|-----------------------------------|--------------------------------|----------|
|                                  | 35 %                              | 35 %                           |          |
|                                  | @Temperature 120 °C               | @Temperature 248 °F            |          |
|                                  | 45 %                              | 45 %                           |          |
|                                  | @Temperature 150 °C               | @Temperature 302 °F            |          |
| Elongation at Yield              | 5.0 %                             | 5.0 %                          |          |
|                                  | @Temperature 23.0<br>°C           | @Temperature 73.4 °F           |          |
|                                  | 5.0 %                             | 5.0 %                          |          |
|                                  | @Temperature 60.0<br>°C           | @Temperature 140 °F            |          |
|                                  | 5.0 %                             | 5.0 %                          |          |
|                                  | @Temperature 90.0<br>°C           | @Temperature 194 °F            |          |
|                                  | 6.0 %                             | 6.0 %                          |          |
|                                  | @Temperature 120 °C               | @Temperature 248 °F            |          |
|                                  | 8.0 %                             | 8.0 %                          |          |
|                                  | @Temperature 150 °C               | @Temperature 302 °F            |          |
| Tensile Modulus                  | 3.20 GPa                          | 464 ksi                        |          |
|                                  | @Temperature 150 °C               | @Temperature 302 °F            |          |
|                                  | 3.60 GPa                          | 522 ksi                        |          |
|                                  | @Temperature 120 °C               | @Temperature 248 °F            |          |
|                                  | 3.65 GPa                          | 529 ksi                        |          |
|                                  | @Temperature 90.0<br>°C           | @Temperature 194 °F            |          |
|                                  | 3.70 GPa                          | 537 ksi                        |          |
|                                  | @Temperature 23.0<br>°C           | @Temperature 73.4 °F           |          |
|                                  | 3.70 GPa                          | 537 ksi                        |          |
|                                  | @Temperature 60.0<br>°C           | @Temperature 140 °F            |          |
| Charpy Impact Unnotched          | NB                                | NB                             |          |
| Charpy Impact, Notched           | 0.800 J/cm <sup>2</sup>           | 3.81 ft-lb/in <sup>2</sup>     |          |
| Coefficient of Friction, Dynamic | 0.26                              | 0.26                           |          |

| Mechanical Properties           | Metric                                       | English  | Comments |
|---------------------------------|--|--|----------|
| Coefficient of Friction, Static | 0.32   | 0.32   |          |
| K (wear) Factor                 | 15.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M | 7.45 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr |          |

| Thermal Properties                          | Metric                        | English                          | Comments |
|---|-------------------------------|----------------------------------|----------|
| Maximum Service Temperature, Air            | 210 Å°C                       | 410 Å°F                          |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 195 Å°C                       | 383 Å°F                          |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 165 Å°C                       | 329 Å°F                          |          |
| Vicat Softening Point                       | >= 300 Å°C<br>@Load 5.00 kg   | >= 572 Å°F<br>@Load 11.0 lb      |          |
| Flammability, UL94                          | V-1<br>@Thickness 0.750 mm    | V-1<br>@Thickness 0.0295 in      |          |
|   | V-0<br>@Thickness 3.00 mm     | V-0<br>@Thickness 0.118 in       |          |
|   | V-0<br>@Thickness 1.50 mm     | V-0<br>@Thickness 0.0591 in      |          |
| Glow Wire Test                              | 875 Å°C<br>@Thickness 1.00 mm | 1610 Å°F<br>@Thickness 0.0394 in | GWIT     |
|   | 960 Å°C<br>@Thickness 2.00 mm | 1760 Å°F<br>@Thickness 0.0787 in | GWFI/GWT |

| Electrical Properties      | Metric | English | Comments   |
|----------------------------|--------|---------|------------|
| Comparative Tracking Index | 175 V  | 175 V   | A solution |

| Processing Properties | Metric                           | English                          | Comments |
|-----------------------|----------------------------------|----------------------------------|----------|
| Melt Temperature      | 360 - 390 Å°C                    | 680 - 734 Å°F                    |          |
| Mold Temperature      | 170 - 200 Å°C                    | 338 - 392 Å°F                    |          |
| Drying Temperature    | 120 - 150 Å°C<br>@Time 10800 sec | 248 - 302 Å°F<br>@Time 3.00 hour |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

ISO Shrinkage - Pressure  
Descriptive Properties

60 MPa  
Value

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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