

## LATI Laticonther 80 GR/50 PPS, 50% Graphite Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

High thermal conductivity product based on Polyphenylene Sulfide (PPS). Graphite. 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-Laticonther-80-GR50-PPS-50-Graphite-Reinforced.php](http://www.lookpolymers.com/polymer_LATI-Laticonther-80-GR50-PPS-50-Graphite-Reinforced.php)

| Physical Properties               | Metric                | English                   | Comments |
|-----------------------------------|-----------------------|---------------------------|----------|
| Density                           | 1.71 g/cc             | 0.0618 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in     |          |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in     |          |

| Mechanical Properties     | Metric                         | English                        | Comments |
|---------------------------|--------------------------------|--------------------------------|----------|
| Tensile Strength at Break | 60.0 MPa                       | 8700 psi                       |          |
| Elongation at Break       | 0.60 %<br>@Temperature 23.0 °C | 0.60 %<br>@Temperature 73.4 °F |          |
| Tensile Modulus           | 14.7 GPa                       | 2130 ksi                       |          |
| Charpy Impact Unnotched   | 0.500 J/cm <sup>2</sup>        | 2.38 ft-lb/in <sup>2</sup>     |          |
| Charpy Impact, Notched    | 0.200 J/cm <sup>2</sup>        | 0.952 ft-lb/in <sup>2</sup>    |          |

| Thermal Properties                          | Metric                    | English                            | Comments     |
|---------------------------------------------|---------------------------|------------------------------------|--------------|
| Thermal Conductivity                        | 10.0 W/m-K                | 69.4 BTU-in/hr-ft <sup>2</sup> -°F | Longitudinal |
| Maximum Service Temperature, Air            | 220 °C                    | 428 °F                             |              |
| Deflection Temperature at 0.46 MPa (66 psi) | 275 °C                    | 527 °F                             |              |
| Deflection Temperature at 1.8 MPa (264 psi) | 230 °C                    | 446 °F                             |              |
| Vicat Softening Point                       | 245 °C<br>@Load 5.00 kg   | 473 °F<br>@Load 11.0 lb            |              |
| Flammability, UL94                          | V-0<br>@Thickness 3.00 mm | V-0<br>@Thickness 0.118 in         |              |
|                                             | V-0                       | V-0                                |              |

| Thermal Properties | @Thickness 1.50 mm<br>Metric | @Thickness 0.0591 in<br>English | Comments |
|--------------------|------------------------------|---------------------------------|----------|
|                    | V-0                          | V-0                             |          |
|                    | @Thickness 0.750 mm          | @Thickness 0.0295 in            |          |
| Glow Wire Test     | 960 °C                       | 1760 °F                         | GWFI/GWT |
|                    | @Thickness 1.00 mm           | @Thickness 0.0394 in            |          |
|                    | 960 °C                       | 1760 °F                         | GWFI/GWT |
|                    | @Thickness 2.00 mm           | @Thickness 0.0787 in            |          |

| Electrical Properties | Metric      | English     | Comments |
|-----------------------|-------------|-------------|----------|
| Volume Resistivity    | 2000 ohm-cm | 2000 ohm-cm |          |
| Surface Resistance    | 600 ohm     | 600 ohm     |          |

| Processing Properties | Metric          | English         | Comments |
|-----------------------|-----------------|-----------------|----------|
| Melt Temperature      | 290 - 320 °C    | 554 - 608 °F    |          |
| Mold Temperature      | 130 - 140 °C    | 266 - 284 °F    |          |
| Drying Temperature    | 130 - 150 °C    | 266 - 302 °F    |          |
|                       | @Time 10800 sec | @Time 3.00 hour |          |

| Descriptive Properties   | Value  | Comments |
|--------------------------|--------|----------|
| ISO Shrinkage - Pressure | 60 MPa |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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