

## LATI Laticonther 83 CP/85 PA12, Impact Modified

Category : Polymer , Thermoplastic , Polyketone

### Material Notes:

High thermal conductivity product based on Polyamide 12 (PA12), impact modified. Special filler. 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-83-CP85-PA12-Impact-Modified.php](http://www.lookpolymers.com/polymer_LATI-Laticonther-83-CP85-PA12-Impact-Modified.php)

| Physical Properties               | Metric               | English                  | Comments |
|-----------------------------------|----------------------|--------------------------|----------|
| Density                           | 3.00 g/cc            | 0.108 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow       | 0.0070 - 0.010 cm/cm | 0.0070 - 0.010 in/in     |          |
| Linear Mold Shrinkage, Transverse | 0.0070 - 0.010 cm/cm | 0.0070 - 0.010 in/in     |          |

| Mechanical Properties     | Metric                 | English                    | Comments |
|---------------------------|------------------------|----------------------------|----------|
| Tensile Strength at Break | 15.0 MPa               | 2180 psi                   |          |
| Elongation at Break       | 5.0 %                  | 5.0 %                      |          |
| Tensile Modulus           | 0.900 GPa              | 131 ksi                    |          |
| Charpy Impact Unnotched   | 6.50 J/cm <sup>2</sup> | 30.9 ft-lb/in <sup>2</sup> |          |
| Charpy Impact, Notched    | 1.00 J/cm <sup>2</sup> | 4.76 ft-lb/in <sup>2</sup> |          |

| Thermal Properties                          | Metric                   | English                                | Comments     |
|---|--------------------------|--|--------------|
| Thermal Conductivity                        | 2.00 W/m-K               | 13.9 BTU-in/hr-ft <sup>2</sup> -<br>°F | Longitudinal |
| Maximum Service Temperature, Air            | 80.0 °C                  | 176 °F                                 |              |
| Deflection Temperature at 0.46 MPa (66 psi) | 55.0 °C                  | 131 °F                                 |              |
| Deflection Temperature at 1.8 MPa (264 psi) | 40.0 °C                  | 104 °F                                 |              |
| Vicat Softening Point                       | 60.0 °C<br>@Load 5.00 kg | 140 °F<br>@Load 11.0 lb                |              |

| Processing Properties | Metric         | English      | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature      | 240 - 260 °C   | 464 - 500 °F |          |
| Mold Temperature      | 60.0 - 80.0 °C | 140 - 176 °F |          |

| Processing Properties | 70.0 - 90.0 A°C | 158 - 194 A°F   | Comments |
|-----------------------|-----------------|-----------------|----------|
| Drying Temperature    | Metric          | English         |          |
|                       | @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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