

## LATI Latene® 7 TR-V2 PP Homopolymer, Mineral Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

### Material Notes:

Polypropylene homopolymer (PPh) based compound. Mineral filler. UL94 V-2 classified, with brominated flame retardants, PBB/PBDE free.

Good surface appearance. 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-Latene-7-TR-V2-PP-Homopolymer-Mineral-Reinforced-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LATI-Latene-7-TR-V2-PP-Homopolymer-Mineral-Reinforced-Flame-Retardant.php)

| Physical Properties               | Metric                | English                   | Comments |
|-----------------------------------|-----------------------|---------------------------|----------|
| Density                           | 0.970 g/cc            | 0.0350 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow       | 0.0135 - 0.0165 cm/cm | 0.0135 - 0.0165 in/in     |          |
| Linear Mold Shrinkage, Transverse | 0.014 - 0.017 cm/cm   | 0.014 - 0.017 in/in       |          |

| Mechanical Properties     | Metric                | English               | Comments |
|---------------------------|-----------------------|-----------------------|----------|
| Tensile Strength at Break | 25.0 MPa              | 3630 psi              |          |
| Elongation at Break       | 25 %                  | 25 %                  |          |
|                           | @Temperature 23.0 Å°C | @Temperature 73.4 Å°F |          |
|                           | >= 100 %              | >= 100 %              |          |
| Elongation at Yield       | @Temperature 60.0 Å°C | @Temperature 140 Å°F  |          |
|                           | >= 100 %              | >= 100 %              |          |
|                           | @Temperature 90.0 Å°C | @Temperature 194 Å°F  |          |
| Elongation at Yield       | 6.0 %                 | 6.0 %                 |          |
|                           | @Temperature 23.0 Å°C | @Temperature 73.4 Å°F |          |
|                           | 8.0 %                 | 8.0 %                 |          |
| Elongation at Yield       | @Temperature 60.0 Å°C | @Temperature 140 Å°F  |          |
|                           | 9.0 %                 | 9.0 %                 |          |
|                           | @Temperature 90.0 Å°C | @Temperature 194 Å°F  |          |
| Tensile Modulus           | 0.550 GPa             | 79.8 ksi              |          |
|                           | @Temperature 90.0     |                       |          |

| Mechanical Properties   | °C<br>Metric             | @Temperature 194 °F<br>English | Comments |
|-------------------------|--------------------------|--------------------------------|----------|
|                         | 0.950 GPa                | 138 ksi                        |          |
|                         | @Temperature 60.0 °C     | @Temperature 140 °F            |          |
|                         | 2.20 GPa                 | 319 ksi                        |          |
|                         | @Temperature 23.0 °C     | @Temperature 73.4 °F           |          |
| Charpy Impact Unnotched | 1.50 J/cm <sup>2</sup>   | 7.14 ft-lb/in <sup>2</sup>     |          |
|                         | @Temperature -20.0 °C    | @Temperature -4.00 °F          |          |
|                         | 5.00 J/cm <sup>2</sup>   | 23.8 ft-lb/in <sup>2</sup>     |          |
|                         | @Temperature 23.0 °C     | @Temperature 73.4 °F           |          |
| Charpy Impact, Notched  | 0.0300 J/cm <sup>2</sup> | 0.143 ft-lb/in <sup>2</sup>    |          |
|                         | @Temperature -20.0 °C    | @Temperature -4.00 °F          |          |
|                         | 0.150 J/cm <sup>2</sup>  | 0.714 ft-lb/in <sup>2</sup>    |          |
|                         | @Temperature 23.0 °C     | @Temperature 73.4 °F           |          |

| Thermal Properties                          | Metric              | English              | Comments |
|---------------------------------------------|---------------------|----------------------|----------|
| Maximum Service Temperature, Air            | 90.0 °C             | 194 °F               |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 110 °C              | 230 °F               |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C             | 140 °F               |          |
| Vicat Softening Point                       | 100 °C              | 212 °F               |          |
|                                             | @Load 5.00 kg       | @Load 11.0 lb        |          |
| Flammability, UL94                          | V-2                 | V-2                  |          |
|                                             | @Thickness 3.00 mm  | @Thickness 0.118 in  |          |
|                                             | V-2                 | V-2                  |          |
|                                             | @Thickness 1.50 mm  | @Thickness 0.0591 in |          |
|                                             | V-2                 | V-2                  |          |
|                                             | @Thickness 0.750 mm | @Thickness 0.0295 in |          |
| Oxygen Index                                | 29 %                | 29 %                 |          |
|                                             | 960 °C              | 1760 °F              |          |

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

| Electrical Properties      | Metric | English | Comments   |
|----------------------------|--------|---------|------------|
| Comparative Tracking Index | 600 V  | 600 V   | A solution |

| Processing Properties | Metric          | English         | Comments |
|-----------------------|-----------------|-----------------|----------|
| Melt Temperature      | 180 - 220 Â°C   | 356 - 428 Â°F   |          |
| Mold Temperature      | 20.0 - 40.0 Â°C | 68.0 - 104 Â°F  |          |
| Drying Temperature    | 80.0 - 90.0 Â°C | 176 - 194 Â°F   |          |
|                       | @Time 10800 sec | @Time 3.00 hour |          |

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

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