

LATI Lapex R PPSU

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

Polyphenylene Sulfone (PPSU). Unfilled. Low smoke density and low toxicity index. Very high dimensional stability. 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-Lapex-R-PPSU.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|----------------------|---------------------------|----------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | |
| Linear Mold Shrinkage, Flow | 0.0080 - 0.010 cm/cm | 0.0080 - 0.010 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0085 - 0.010 cm/cm | 0.0085 - 0.010 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------------------------|-----------------------|----------|
| Elongation at Break | >= 100 % | >= 100 % | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| | >= 100 % | >= 100 % | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | >= 100 % | >= 100 % | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | >= 100 % | >= 100 % | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | >= 100 % | >= 100 % | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| Elongation at Yield | 2.8 % | 2.8 % | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 3.3 % | 3.3 % | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 3.8 % | 3.8 % | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | 4.6 % | 4.6 % | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------------|-----------------------|----------|
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 5.3 % | 5.3 % | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Tensile Modulus | 2.40 GPa | 348 ksi | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 2.50 GPa | 363 ksi | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 2.60 GPa | 377 ksi | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | 2.70 GPa | 392 ksi | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 2.80 GPa | 406 ksi | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Charpy Impact Unnotched | NB | NB | |
| Charpy Impact, Notched | 6.00 J/cmÂ² | 28.6 ft-lb/inÂ² | |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|----------------------|----------|
| Maximum Service Temperature, Air | 190 Â°C | 374 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 Â°C | 419 Â°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 Â°C | 401 Â°F | |
| Vicat Softening Point | 215 Â°C | 419 Â°F | |
| | @Load 5.00 kg | @Load 11.0 lb | |
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | V-0 | V-0 | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| Oxygen Index | 38 % | 38 % | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------------------|----------------------------------|----------|
| Melt Temperature | 340 - 380 Â°C | 644 - 716 Â°F | |
| Mold Temperature | 140 - 180 Â°C | 284 - 356 Â°F | |
| Drying Temperature | 140 - 180 Â°C @Time 10800 sec | 284 - 356 Â°F @Time 3.00 hour | |

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

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