

LATI Latamid 66 H2 G/50 PA 66, 50% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Polyamide 66 (PA66) based compound. Heat stabilized. Glass fibers. 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-Latamid-66-H2-G50-PA-66-50-Glass-Fiber-Reinforced-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|----------|
| Density | 1.56 g/cc | 0.0564 lb/in ³ | |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0065 - 0.0095 cm/cm | 0.0065 - 0.0095 in/in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-----------------------|----------|
| Tensile Strength at Break | 100 MPa | 14500 psi | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 120 MPa | 17400 psi | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 140 MPa | 20300 psi | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | 170 MPa | 24700 psi | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 215 MPa | 31200 psi | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Elongation at Break | 3.0 % | 3.0 % | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| | 4.2 % | 4.2 % | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 5.0 % | 5.0 % | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------|-----------------------|----------|
| | @Temperature 120 Å°C | @Temperature 248 Å°F | |
| | 6.5 % | 6.5 % | |
| | @Temperature 150 Å°C | @Temperature 302 Å°F | |
| Tensile Modulus | 6.00 GPa | 870 ksi | |
| | @Temperature 150 Å°C | @Temperature 302 Å°F | |
| | 7.10 GPa | 1030 ksi | |
| | @Temperature 120 Å°C | @Temperature 248 Å°F | |
| | 8.00 GPa | 1160 ksi | |
| | @Temperature 90.0 Å°C | @Temperature 194 Å°F | |
| | 10.0 GPa | 1450 ksi | |
| | @Temperature 60.0 Å°C | @Temperature 140 Å°F | |
| | 17.0 GPa | 2470 ksi | |
| | @Temperature 23.0 Å°C | @Temperature 73.4 Å°F | |
| Charpy Impact Unnotched | 6.00 J/cmÅ² | 28.6 ft-lb/inÅ² | |
| Charpy Impact, Notched | 1.50 J/cmÅ² | 7.14 ft-lb/inÅ² | |

| Thermal Properties | Metric | English | Comments |
|---|---------------------|----------------------|----------|
| Maximum Service Temperature, Air | 135 Å°C | 275 Å°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 Å°C | 500 Å°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 250 Å°C | 482 Å°F | |
| Vicat Softening Point | 255 Å°C | 491 Å°F | |
| | @Load 5.00 kg | @Load 11.0 lb | |
| Flammability, UL94 | HB | HB | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | HB | HB | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Oxygen Index | 21.5 | 21.5 | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|----------------------------------|----------|
| Melt Temperature | 280 - 310 Â°C | 536 - 590 Â°F | |
| Mold Temperature | 80.0 - 110 Â°C | 176 - 230 Â°F | |
| Drying Temperature | 90.0 - 100 Â°C @Time 10800 sec | 194 - 212 Â°F @Time 3.00 hour | |

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

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