

LATI LARAMID G/50 50% Glass Filled Polyphthalamide (PPA) Based Compound (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Laramid compounds are based on a unique semi-crystalline engineering polymer (polyphthalamide) offering improved performance compared to traditional engineering thermoplastics at a lower cost than specialty polymers. Laramid offers excellent mechanical properties (strength, stiffness, fatigue and creep resistance) over a broad temperature range, exceptional thermal resistance good dimensional stability and good processing characteristics. Furthermore, it's properties are not affected much by typical moisture levels therefore Laramid compounds do not require critical drying procedures and can be easily employed for complicated part production using conventional molding equipment. Glass fiber reinforced Laramid requires accurate design to reduce differential shrinkage and to minimize warpage of parts. Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guidelines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

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http://www.lookpolymers.com/polymer_LATI-LARAMID-G50-50-Glass-Filled-Polyphthalamide-PPA-Based-Compound-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|----------|
| Density | 1.59 g/cc | 0.0574 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.0015 cm/cm | 0.0015 in/in | LATI |
| Linear Mold Shrinkage, Transverse | 0.0050 cm/cm | 0.0050 in/in | LATI |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Ultimate | 240 MPa | 34800 psi | ISO 527 |
| Flexural Modulus | 17.2 GPa | 2490 ksi | ASTM D790 |
| Izod Impact, Notched | 1.17 J/cm @Temperature 23.0 °C | 2.19 ft-lb/in @Temperature 73.4 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 269 °C | 516 °F | ASTM D648 |
| | HB | HB | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------|----------------------|----------|
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|----------------------------------|-----------------------------------|-----------|
| Dielectric Strength | 21.0 kV/mm @Thickness 2.00 mm | 533 kV/in @Thickness 0.0787 in | IEC 243-1 |
| Comparative Tracking Index | 500 V | 500 V | IEC 112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|---|
| Melt Temperature | 310 - 335 °C | 590 - 635 °F | |
| Mold Temperature | 150 - 170 °C | 302 - 338 °F | |
| Drying Temperature | 80.0 - 90.0 °C | 176 - 194 °F | Necessary, use a desiccant-type hopper dryer. |
| Dry Time | >= 6 hour | >= 6 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Injection Speed | medium | |

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