

LG Chemical LUMID GP2330BL PA66+GF33%, General Purpose

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Feature: Injection Molding, PA66+GF33%, General Purpose
 Application: Automotive (Radiator Tank, Reservoir)
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-GP2330BL-PA66GF33-General-Purpose.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------------------------------|----------------------------------------------|-------------------|
| Specific Gravity | 1.38 g/cc | 1.38 g/cc | ASTM D792 |
| Water Absorption | 0.70 % | 0.70 % | ASTM D570 |
| Maximum Moisture Content | 0.090 | 0.090 | Injection Molding |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0090 cm/cm @Thickness 3.20 mm | 0.0040 - 0.0090 in/in @Thickness 0.126 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------|
| Hardness, Rockwell R | 122 | 122 | ASTM D785 |
| Tensile Strength, Yield | 191 MPa @Thickness 3.20 mm | 27700 psi @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Elongation at Break | 3.0 % @Thickness 3.20 mm | 3.0 % @Thickness 0.126 in | 5mm/min; ASTM D638 |
| Flexural Yield Strength | 279 MPa @Thickness 3.20 mm | 40500 psi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Flexural Modulus | 9.32 GPa @Thickness 3.20 mm | 1350 ksi @Thickness 0.126 in | 1.3mm/min; ASTM D790 |
| Izod Impact, Notched | 1.27 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C | 2.39 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|------------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 30.0 Âµm/m-Â°C | 16.7 Âµin/in-Â°F | ASTM D696 |
| Melting Point | 260 Â°C | 500 Â°F | ASTM D3418 |
| Deflection Temperature at 0.46 MPa (66 psi) | 260 Â°C | 500 Â°F | Unannealed; ASTM D648 |

| Thermal Properties | @Thickness 6.40 mm Metric | @Thickness 0.252 in English | Comments |
|------------------------------------------------|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 250 Å°C @Thickness 6.40 mm | 482 Å°F @Thickness 0.252 in | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|-----------------------------------|-----------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Dielectric Constant | 4.0 @Frequency 1.00e+6 Hz | 4.0 @Frequency 1.00e+6 Hz | ASTM D150 |
| Dielectric Strength | 25.0 kV/mm @Thickness 1.00 mm | 635 kV/in @Thickness 0.0394 in | ASTM D149 |

| Processing Properties | Metric | English | Comments |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature | 260 - 270 Å°C | 500 - 518 Å°F | Injection Molding |
| Middle Barrel Temperature | 270 - 285 Å°C | 518 - 545 Å°F | Injection Molding |
| Front Barrel Temperature | 270 - 295 Å°C | 518 - 563 Å°F | Injection Molding |
| Nozzle Temperature | 270 - 295 Å°C | 518 - 563 Å°F | Injection Molding |
| Melt Temperature | 270 - 295 Å°C | 518 - 563 Å°F | Injection Molding |
| Mold Temperature | 80.0 - 110 Å°C | 176 - 230 Å°F | Injection Molding |
| Drying Temperature | 80.0 - 100 Å°C | 176 - 212 Å°F | Injection Molding |
| Dry Time | 4.00 - 5.00 hour | 4.00 - 5.00 hour | Injection Molding |
| Back Pressure | 29.4 - 58.8 MPa | 4260 - 8530 psi | Injection Molding |
| Screw Speed | 30 - 60 rpm | 30 - 60 rpm | Injection Molding |

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