

## LG Chemical LUMID HI2202B(W) PA66+GF20%, High Impact

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Feature: Injection Molding, PA66+GF20%, High Impact  
Application: Automotive (Covers)  
CAS No. 25038-54-4, 9010-79-1 and 65997-17-3  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUMID-HI2202BW-PA66GF20-High-Impact.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI2202BW-PA66GF20-High-Impact.php)

| Physical Properties         | Metric                                     | English                                     | Comments  |
|-----------------------------|--------------------------------------------|---------------------------------------------|-----------|
| Specific Gravity            | 1.28 g/cc                                  | 1.28 g/cc                                   | ASTM D792 |
| Water Absorption            | 0.80 %                                     | 0.80 %                                      | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0060 - 0.010 cm/cm<br>@Thickness 3.20 mm | 0.0060 - 0.010 in/in<br>@Thickness 0.126 in | ASTM D955 |

| Mechanical Properties   | Metric                                                   | English                                                       | Comments             |
|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------|
| Hardness, Rockwell R    | 120                                                      | 120                                                           | ASTM D785            |
| Tensile Strength, Yield | 127 MPa<br>@Thickness 3.20 mm                            | 18500 psi<br>@Thickness 0.126 in                              | 5mm/min; ASTM D638   |
| Elongation at Break     | 4.0 %<br>@Thickness 3.20 mm                              | 4.0 %<br>@Thickness 0.126 in                                  | 5mm/min; ASTM D638   |
| Flexural Yield Strength | 167 MPa<br>@Thickness 3.20 mm                            | 24200 psi<br>@Thickness 0.126 in                              | 1.3mm/min; ASTM D790 |
| Flexural Modulus        | 4.90 GPa<br>@Thickness 3.20 mm                           | 711 ksi<br>@Thickness 0.126 in                                | 1.3mm/min; ASTM D790 |
| Izod Impact, Notched    | 1.57 J/cm<br>@Thickness 3.20 mm,<br>Temperature 23.0 Â°C | 2.94 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature 73.4 Â°F | ASTM D256            |

| Thermal Properties                          | Metric                        | English                        | Comments              |
|---------------------------------------------|-------------------------------|--------------------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 40.0 Âµm/m-Â°C                | 22.2 Âµin/in-Â°F               | ASTM D696             |
| Melting Point                               | 260 Â°C                       | 500 Â°F                        | ASTM D3418            |
| Deflection Temperature at 0.46 MPa (66 psi) | 250 Â°C<br>@Thickness 6.40 mm | 482 Â°F<br>@Thickness 0.252 in | Unannealed; ASTM D648 |

| Thermal Properties               | Metric             | English             | Comments              |
|----------------------------------|--------------------|---------------------|-----------------------|
| Temperature at 1.8 MPa (264 psi) | 230 Â°C            | 446 Â°F             | Unannealed; ASTM D648 |
|                                  | @Thickness 6.40 mm | @Thickness 0.252 in |                       |

| Electrical Properties | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Volume Resistivity    | 1.00e+14 ohm-cm       | 1.00e+14 ohm-cm       | ASTM D257 |
| Dielectric Constant   | 4.0                   | 4.0                   | ASTM D150 |
|                       | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
| Dielectric Strength   | 24.0 kV/mm            | 610 kV/in             | ASTM D149 |
|                       | @Thickness 1.00 mm    | @Thickness 0.0394 in  |           |

| Processing Properties     | Metric           | English          | Comments          |
|---------------------------|------------------|------------------|-------------------|
| Rear Barrel Temperature   | 265 - 275 Â°C    | 509 - 527 Â°F    | Injection Molding |
| Middle Barrel Temperature | 270 - 280 Â°C    | 518 - 536 Â°F    | Injection Molding |
| Front Barrel Temperature  | 270 - 285 Â°C    | 518 - 545 Â°F    | Injection Molding |
| Nozzle Temperature        | 270 - 280 Â°C    | 518 - 536 Â°F    | Injection Molding |
| Melt Temperature          | 270 - 290 Â°C    | 518 - 554 Â°F    | Injection Molding |
| Mold Temperature          | 80.0 - 110 Â°C   | 176 - 230 Â°F    | Injection Molding |
| Drying Temperature        | 80.0 - 100 Â°C   | 176 - 212 Â°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 |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China