

LUMID GP2300BW

PA66-GF30

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.0065 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Break | 172 | MPa | ASTM D 638 |
| Elongation at Break | 2.8 | % | ASTM D 638 |
| Flexural Modulus | 8044 | MPa | ASTM D 790 |
| Flexural Strength | 245 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 98.1 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------------|--------------------|-------|---------------|
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 0.75 | mm | - |
| Coefficient of Thermal Expansion, MD | 30 | E-6/K | ASTM D 696 |
| DTUL @ 264 psi | 250 ^[1] | °C | ASTM D 648 |
| Melting Temperature | 260 | °C | ASTM D 3418 |
| 1: 6.4 mm | | | |

| Electrical properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------|---------------|
| ASTM Data | | | |
| Dielectric Strength, Short Time | 25 | kV/mm | ASTM D 149 |
| Dielectric Constant, 1 MHz | 4 | - | ASTM D 150 |
| Volume Resistivity | 1E14 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 1.1 | % | ASTM D 570 |
| Density | 1370 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 - 100 | °C | - |
| Pre-drying - Time | 4 - 5 | h | - |
| Melt temperature | 260 - 290 | °C | - |
| Mold temperature | 80 - 100 | °C | - |
| Zone 1 | 250 - 270 | °C | - |
| Zone 2 | 260 - 285 | °C | - |
| Zone 3 | 260 - 290 | °C | - |
| Nozzle temperature | 260 - 290 | °C | - |
| Screw speed | 60 - 150 | rpm | - |
| Back pressure | 3 - 6 | MPa | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Applications

Automotive, Electrical and Electronical, General Purpose