

LUPOY GP1000M

PC

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 11 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.0065 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 61.8 | MPa | ASTM D 638 |
| Elongation at Break | 150 | % | ASTM D 638 |
| Flexural Modulus | 2256 | MPa | ASTM D 790 |
| Flexural Strength | 98.1 | MPa | ASTM D 790 |
| Rockwell Hardness | R 118 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 707 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 264 psi | 130 | °C | ASTM D 648 |
| Vicat Temperature | 141 | °C | ASTM D 1525 |

| Electrical properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------|---------------|
| ISO Data | | | |
| Comparative tracking index | 250 | - | IEC 60112 |
| ASTM Data | | | |
| Dielectric Strength, Short Time | 17 | kV/mm | ASTM D 149 |
| Volume Resistivity | 2E15 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 100 - 120 | °C | - |
| Pre-drying - Time | 3 - 5 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 300 - 320 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Zone 1 | 260 - 280 | °C | - |
| Zone 2 | 280 - 300 | °C | - |
| Zone 3 | 300 - 320 | °C | - |
| Nozzle temperature | 300 - 320 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 1 - 4 | MPa | - |

Characteristics**Processing**

Injection Molding

Special Characteristics

Transparent

Applications

Automotive, IT / Business Machine, Electrical and Electronical, General Purpose

Regional Availability

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