

LUMID HI5006A

(PA6+ABS)

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 7.5 | g/10min | ASTM D 1238 |
| Temperature | 240 | °C | - |
| Load | 5 | kg | - |
| Mold Shrinkage, MD | 0.01 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 44.1 | MPa | ASTM D 638 |
| Elongation at Break | 100 | % | ASTM D 638 |
| Flexural Modulus | 1570 | MPa | ASTM D 790 |
| Flexural Strength | 58.9 | MPa | ASTM D 790 |
| Izod Impact notched, 1/4 in | 687 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 80 | E-6/K | ASTM D 696 |
| DTUL @ 66 psi | 110 | °C | ASTM D 648 |
| DTUL @ 264 psi | 80 | °C | ASTM D 648 |
| Melting Temperature | 220 | °C | ASTM D 3418 |

| Electrical properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------|---------------|
| ASTM Data | | | |
| Dielectric Strength, Short Time | 26 | kV/mm | ASTM D 149 |
| Dielectric Constant, 1 MHz | 2.9 | - | ASTM D 150 |
| Volume Resistivity | 1E13 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1060 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 70 - 90 | °C | - |
| Pre-drying - Time | 4 - 5 | h | - |
| Processing humidity | ≤0.1 | % | - |
| Melt temperature | 250 - 265 | °C | - |
| Mold temperature | 80 - 100 | °C | - |
| Zone 1 | 235 - 250 | °C | - |
| Zone 2 | 240 - 260 | °C | - |
| Zone 3 | 240 - 260 | °C | - |
| Nozzle temperature | 250 - 265 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

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

Special Characteristics

High impact or impact modified