

LUCEL N109WR

POM

LG Chem

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|------------------|-------------------|----------------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 9 | g/10min | ASTM D 1238 |
| Temperature | 190 | °C | - |
| Load | 2.16 | kg | - |
| Mold Shrinkage, MD | 0.0195 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ASTM Data | | | |
| Tensile Strength at Yield | 60.8 | MPa | ASTM D 638 |
| Elongation at Break | 65 | % | ASTM D 638 |
| Flexural Modulus | 2551 | MPa | ASTM D 790 |
| Flexural Strength | 89.3 | MPa | ASTM D 790 |
| Rockwell Hardness | R 82 | - | ASTM D 785 |
| Izod Impact notched, 1/4 in | 66 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 0.71 | mm | - |
| DTUL @ 66 psi | 160 | °C | ASTM D 648 |
| DTUL @ 264 psi | 110 | °C | ASTM D 648 |
| Electrical properties | | | |
| ASTM Data | | | |
| Dielectric Strength, Short Time | 24 | kV/mm | ASTM D 149 |
| Dissipation Factor, 1 MHz | 3.8 | - | ASTM D 150 |
| Surface Resistivity | 1E16 | Ohm | ASTM D 257 |
| Volume Resistivity | 1E14 | Ohm*cm | ASTM D 257 |
| Other properties | | | |
| Density | 1410 | kg/m ³ | ASTM D 792 |
| Processing Recommendation Injection Molding | | | |
| Pre-drying - Temperature | 90 - 110 | °C | - |
| Pre-drying - Time | 3 - 6 | h | - |
| Processing humidity | ≤0.1 | % | - |
| Melt temperature | 190 - 200 | °C | - |
| Mold temperature | 60 - 80 | °C | - |
| Zone 1 | 160 - 180 | °C | - |
| Zone 2 | 180 - 200 | °C | - |
| Zone 3 | 190 - 200 | °C | - |
| Nozzle temperature | 190 - 200 | °C | - |
| Screw speed | 50 - 100 | rpm | - |
| Back pressure | 4 - 8 | MPa | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive

Chemical Resistance

General Chemical Resistance

Regional Availability

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