

Product Texts

LEXAN LF1000 compound is based on Polycarbonate (PC) resin containing 10% PTFE. Added features of this grade include: Wear Resistant, Flame Retardant and Easy Molding.

| Mechanical properties | Value | Unit | Test Standard |
|------------------------------|--------------|----------------|----------------------|
| ASTM Data | | | |
| Tensile Strength at Break | 61 | MPa | ASTM D 638 |
| Elongation at Break | 90 | % | ASTM D 638 |
| Flexural Modulus | 2350 | MPa | ASTM D 790 |
| Taber Abrasion Resistance | 7 | mg/1000 cycles | ASTM D 1044 |
| Izod Impact notched, 1/8 in | 184 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| DTUL @ 264 psi | 137 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Water Absorption, 24hr | 0.15 | % | ASTM D 570 |
| Density | 1260 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 290 - 315 | °C | - |
| Mold temperature | 70 - 105 | °C | - |
| Zone 1 | 270 - 280 | °C | - |
| Zone 2 | 270 - 280 | °C | - |
| Zone 3 | 275 - 305 | °C | - |
| Nozzle temperature | 275 - 305 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Applications

Building Construction, IT / Business Machine, Electrical and Electronical, Sports Equipment

Regional Availability

North America, South and Central America