

LNP™ LUBRICOMP™ Compound DL0029E - Americas

(PC+PTFE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP DL0029E compound is based on Polycarbonate (PC) resin containing 10% PTFE. Added features of this grade include: Wear Resistant, Flame Retardant.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.7 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.9 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Modulus | 2240 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 56 | MPa | ASTM D 638 |
| Tensile Strength at Break | 47 | MPa | ASTM D 638 |
| Elongation at Yield | 5.7 | % | ASTM D 638 |
| Elongation at Break | 33 | % | ASTM D 638 |
| Flexural Modulus | 2330 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 119 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 2020 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 70.9 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 75.1 | E-6/K | ASTM D 696 |
| DTUL @ 66 psi | 141 | °C | ASTM D 648 |
| DTUL @ 264 psi | 130 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.01 | % | ASTM D 570 |
| Density | 1310 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 300 - 315 | °C | - |
| Mold temperature | 80 - 110 | °C | - |
| Zone 1 | 295 - 305 | °C | - |
| Zone 2 | 305 - 315 | °C | - |
| Zone 3 | 310 - 320 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America