

Product Texts

LNP LUBRICOMP DFL36ELH compound is based on Polycarbonate (PC) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant, Low Extractable, Easy Molding, Healthcare.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.2 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.7 | % | ISO 294-4, 2577 |
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.2 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.7 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 9280 | MPa | ISO 527 |
| Yield stress | 114 | MPa | ISO 527 |
| Yield strain | 2.4 | % | ISO 527 |
| Stress at break | 113 | MPa | ISO 527 |
| Strain at break | 2.6 | % | ISO 527 |
| Flexural modulus | 8700 | MPa | ISO 178 |
| Flexural strength | 180 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 51 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 17 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 9650 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 113 | MPa | ASTM D 638 |
| Tensile Strength at Break | 112 | MPa | ASTM D 638 |
| Elongation at Yield | 2.4 | % | ASTM D 638 |
| Elongation at Break | 2.5 | % | ASTM D 638 |
| Flexural Modulus | 8960 | MPa | ASTM D 790 |
| Flexural Strength | 179 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 176 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 854 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 144 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 149 | °C | ISO 75-1/-2 |
| ASTM Data | | | |
| DTUL @ 66 psi | 147 | °C | ASTM D 648 |
| DTUL @ 264 psi | 142 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1550 | kg/m ³ | ISO 1183 |
| Density | 1550 | 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 | 305 - 325 | °C | - |
| Mold temperature | 80 - 110 | °C | - |
| Zone 1 | 295 - 305 | °C | - |
| Zone 2 | 310 - 320 | °C | - |
| Zone 3 | 320 - 330 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific