

Product Texts

LNP LUBRICOMP OCL36A compound is based on Polyphenylene Sulfide (PPS) - branched resin containing 30% carbon fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 5 | cm ³ /10min | ISO 1133 |
| Temperature | 315 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.2 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.9 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 25000 | MPa | ISO 527 |
| Stress at break | 153 | MPa | ISO 527 |
| Strain at break | 0.7 | % | ISO 527 |
| Flexural modulus | 21200 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 26 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 6 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 255 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 278 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 3 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 49 | E-6/K | ISO 11359-1/-2 |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
| ASTM Data | | | |
| Surface Resistivity | 1000 | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Humidity absorption | 0.03 | % | Sim. to ISO 62 |
| Density | 1520 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 - 150 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Melt temperature | 315 - 320 | °C | - |
| Mold temperature | 140 - 165 | °C | - |
| Zone 1 | 305 - 315 | °C | - |
| Zone 2 | 320 - 330 | °C | - |
| Zone 3 | 330 - 345 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics

Processing

Injection Molding

Regional Availability

Europe

Special Characteristics

Increased electrical conductivity