

SABIC Innovative Plastics LNP LUBRICOMP DFL28 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DFL28 is a compound based on Polycarbonate resin containing 40% Glass Fiber and 10% PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DFL28-PC.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|-----------|
| Density | 1.61 g/cc | 0.0582 lb/in ³ | ASTM D792 |
| | 1.61 g/cc | 0.0582 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0021 cm/cm | 0.0021 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0051 cm/cm | 0.0051 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 145 MPa | 21000 psi | ISO 527 |
| | 148 MPa | 21500 psi | ASTM D638 |
| Tensile Strength, Yield | 145 MPa | 21000 psi | ISO 527 |
| | 148 MPa | 21500 psi | ASTM D638 |
| Elongation at Break | 2.1 % | 2.1 % | ISO 527 |
| | 2.2 % | 2.2 % | ASTM D638 |
| Elongation at Yield | 2.1 % | 2.1 % | ISO 527 |
| | 2.2 % | 2.2 % | ASTM D638 |
| Tensile Modulus | 12.93 GPa | 1875 ksi | 1 mm/min; ISO 527 |
| | 13.78 GPa | 1999 ksi | 50 mm/min; ASTM D638 |

| Flexural Strength Mechanical Properties | 206 MPa Metric | 29900 psi English | ASTM D790 Comments |
|--|---|---|--|
| | 216 MPa | 31300 psi | ISO 178 |
| Flexural Modulus | 11.72 GPa | 1700 ksi | ASTM D790 |
| | 11.8 GPa | 1710 ksi | ISO 178 |
| Izod Impact, Notched | 1.60 J/cm | 3.00 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 8.91 J/cm | 16.7 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 16.0 kJ/m ² | 7.61 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 57.0 kJ/m ² | 27.1 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 22.0 J | 16.2 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 5.00 J | 3.69 ft-lb | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.52 | 0.52 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.52 | 0.52 | ASTM D3702 Modified |
| K (wear) Factor | 260 x 10 ⁻⁸ mm ³ /N-M | 129 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 32.4 µm/m-°C | 18.0 µin/in-°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| | 33.0 µm/m-°C | 18.3 µin/in-°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| CTE, linear, Transverse to Flow | 27.0 µm/m-°C | 15.0 µin/in-°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| | 27.0 µm/m-°C | 15.0 µin/in-°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 146 °C | 295 °F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 145 °C | 293 °F | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 142 °C | 288 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------|---------------------|-----------------------|
| | @Thickness 3.20 mm | @Thickness 0.126 in | unannealed; ASTM D648 |

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