

SABIC Innovative Plastics LNP Lubricomp DP003XXP PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* LUBRICOMP* DP003XXP is a compound based on Polycarbonate resin containing PTFE, Silicone. Added features include: Internally Lubricated. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DP003XXP-PC-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|--------------|
| Density | 1.26 g/cc | 0.0455 lb/in ³ | ISO 1183 |
| Water Absorption | 0.29 % | 0.29 % | ISO 62-1 |
| | @Temperature 23.0 Â°C, Time 86400 sec | @Temperature 73.4 Â°F, Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|--|--|------------------------------|
| Tensile Strength, Yield | 51.0 MPa | 7400 psi | 50 mm/min; ISO 527 |
| Elongation at Yield | 5.6 % | 5.6 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 2.00 GPa | 290 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 80.0 MPa | 11600 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 2.20 GPa | 319 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 20.0 kJ/m ² | 9.52 ft-lb/in ² | 80*10*4; ISO 180/1A |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Izod Impact, Unnotched (ISO) | 110 kJ/m ² | 52.3 ft-lb/in ² | 80*10*4; ISO 180/1U |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Coefficient of Friction, Dynamic | 0.10 | 0.10 | ASTM D 3702 Modified |
| Coefficient of Friction, Static | 0.26 | 0.26 | ASTM D 3702 Modified |
| K (wear) Factor | 84.6 x 10 ⁻⁸ mm ³ /N-M | 42.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr | Washer; ASTM D 3702 Modified |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties | 75.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ Metric | 41.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ English | Comments |
|---|---|--|----------------------------------|
| CTE, linear, Parallel to Flow | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 78.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | 43.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 126 $\text{Å}^\circ\text{C}$ | 259 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| Flammability, UL94 | V-1 @Thickness 3.00 mm | V-1 @Thickness 0.118 in | UL 94 |

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