

## SABIC Innovative Plastics LNP LUBRICOMP OCL36XXP PPS - Linear (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* LUBRICOMP\* OCL36XXP is a compound based on PPS- Linear resin containing PTFE, Carbon Fiber. Added features include :  
Internally Lubricated, Electrically Conductive .

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCL36XXP-PPS-Linear-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCL36XXP-PPS-Linear-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 - 0.0010 cm/cm @Time 86400 sec	0.00050 - 0.0010 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0035 - 0.0040 cm/cm @Time 86400 sec	0.0035 - 0.0040 in/in @Time 24.0 hour	ISO 294
Melt Index of Compound	8.0 g/10 min @Load 5.00 kg, Temperature 315 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 599 Â°F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	163 MPa	23600 psi	5 mm/min; ISO 527
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
Tensile Modulus	24.9 GPa	3610 ksi	1 mm/min; ISO 527
Flexural Strength	219 MPa	31800 psi	2 mm/min; ISO 178
Flexural Modulus	21.3 GPa	3090 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	38.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	19.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	1.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	55.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	258 $\text{Å}^\circ\text{C}$	496 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	278 $\text{Å}^\circ\text{C}$	532 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

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