

## SABIC Innovative Plastics LNP LUBRICOMP OCP36 PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

LNP\* LUBRICOMP\* OCP36 is a compound based on Polyphenylene Sulfide resin containing 30% Carbon Fiber, 15% PTFE/Silicone. Added features of this grade include: Wear Resistant, Bearing Grade, Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP36-PPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-OCP36-PPS.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ASTM D792
	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
	175 MPa	25400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
	175 MPa	25400 psi	5 mm/min; ISO 527
Elongation at Break	0.40 %	0.40 %	Flexural Strain, break, 2 mm/min; ISO 178
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Elongation at Yield	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	18.14 GPa	2631 ksi	50 mm/min; ASTM D638
	28.8 GPa	4180 ksi	1 mm/min; ISO 527
Flexural Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	237 MPa Metric	34400 psi English	D790 Comments
Flexural Yield Strength	237 MPa	34400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	21.3 GPa	3090 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.85 J/cm	9.09 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.33	0.33	ASTM D3702 Modified
K (wear) Factor	48.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	24.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	278 Â°C	532 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	279 Â°C @Thickness 3.20 mm	534 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	266 Â°C	511 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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