

## SABIC Innovative Plastics LNP LUBRICOMP ZI001 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

### Material Notes:

LNP\* LUBRICOMP ZI001 is a compound based on PPE+PS resin containing 2% Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZI001-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZI001-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm @Time 86400 sec	0.0090 - 0.011 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	5 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	35.7 %	35.7 %	Type I, 5 mm/min; ASTM D638
	44.7 %	44.7 %	5 mm/min; ISO 527
Elongation at Yield	2.3 %	2.3 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
	2.50 GPa	363 ksi	50 mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.38 GPa	345 ksi	2 mm/min; ISO 178
	2.52 GPa	365 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	<sup>D790</sup> Comments
Izod Impact, Notched	1.55 J/cm	2.90 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.7 J/cm	29.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	135 kJ/m <sup>2</sup>	64.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	117 °C @Thickness 3.20 mm	243 °F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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