

## SABIC Innovative Plastics LNP LUBRICOMP CZL36 PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

LNP LUBRICOMP\* CZL36 is a compound based on Polystyrene resin containing 30% Milled Glass and 15% PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-CZL36-PS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-CZL36-PS.php)

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ASTM D792
	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	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	0.0024 - 0.0026 cm/cm	0.0024 - 0.0026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0031 - 0.0037 cm/cm	0.0031 - 0.0037 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.0 MPa	3050 psi	ISO 527
	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527
	24.0 MPa	3480 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
	3.5 %	3.5 %	ISO 527
Elongation at Yield	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638

Tensile Modulus Mechanical Properties	2.55 GPa Metric	370 ksi English	50 mm/min; ASTM D638 Comments
	3.88 GPa	563 ksi	1 mm/min; ISO 527
Flexural Strength	49.0 MPa	7110 psi	ISO 178
	52.0 MPa	7540 psi	ASTM D790
Flexural Modulus	4.89 GPa	709 ksi	ASTM D790
	5.11 GPa	741 ksi	ISO 178
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.17 J/cm	2.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	2.00 kJ/m <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.9 µm/m-°C	36.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	67.4 µm/m-°C	37.4 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	67.5 µm/m-°C	37.5 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	83.0 °C	181 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	83.0 °C	181 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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