

## SABIC Innovative Plastics LNP LUBRICOMP WBL36L PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

LNP\* LUBRICOMP\* WBL36L is a compound based on PBT resin containing 30% Glass Bead, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractible.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WBL36L-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WBL36L-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in <sup>3</sup>	ASTM D792
	1.69 g/cc	0.0611 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.024 cm/cm	0.024 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 - 0.020 cm/cm	0.017 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM D638
	36.0 MPa	5220 psi	ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638
	37.0 MPa	5370 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.3 %	3.3 %	ISO 527
Elongation at Yield	2.2 %	2.2 %	ASTM D638
	2.3 %	2.3 %	ISO 527
Tensile Modulus	4.02 GPa	583 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	68.0 MPa Metric	9860 psi English	ASTM D790 Comments
	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	3.90 GPa	566 ksi	ISO 178
	4.13 GPa	599 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.56 J/cm	4.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.66	0.66	ASTM D3702 Modified
Coefficient of Friction, Static	0.63	0.63	ASTM D3702 Modified
K (wear) Factor	50.4 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	25.0 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	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	74.0 Åµm/m-Å°C	41.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	184 Å°C	363 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	188 Å°C	370 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Å°C	201 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China