

## SABIC Innovative Plastics LNP LUBRICOMP WL004 PBT

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

### Material Notes:

LNP LUBRICOMP\* WL004 is a compound based on PBT resin containing 20% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL004-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL004-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ASTM D792
	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0800 %	0.0800 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.021 - 0.024 cm/cm	0.021 - 0.024 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0244 - 0.0254 cm/cm	0.0244 - 0.0254 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0214 - 0.023 cm/cm	0.0214 - 0.023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.021 - 0.024 cm/cm	0.021 - 0.024 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527
	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	8.4 %	8.4 %	ISO 527
	9.8 %	9.8 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	50 mm/min; ASTM D638
	2.44 GPa	354 ksi	1 mm/min; ISO 527
Flexural Strength	77.0 MPa	11200 psi	ISO 178
	78.0 MPa	11300 psi	ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.37 J/cm	8.19 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)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.33	0.33	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	117 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	58.0 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	89.6 Åµm/m-Å°C	49.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	89.6 Åµm/m-Å°C	49.8 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	95.7 Åµm/m-Å°C	53.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	95.8 Åµm/m-Å°C	53.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	61.0 Å°C	142 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	55.0 Å°C	131 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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