

## SABIC Innovative Plastics LNP LUBRICOMP WL002 PBT

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

### Material Notes:

LNP\* LUBRICOMP WL002 is a compound based on PBT resin containing 10% PTFE. 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-WL002-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL002-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
	51.0 MPa	7400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	10.9 %	10.9 %	5 mm/min; ISO 527
	12 %	12 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.3 %	9.3 %	Type I, 5 mm/min; ASTM D638
	9.8 %	9.8 %	5 mm/min; ISO 527
Tensile Modulus	2.78 GPa	403 ksi	50 mm/min; ASTM D638
	2.90 GPa	421 ksi	1 mm/min; ISO 527
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Modulus	2.34 GPa	339 ksi	2 mm/min; ISO 178
	2.64 GPa	383 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	0.390 J/cm Metric	0.731 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	8.80 J/cm	16.5 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)	53.0 kJ/m <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.31	0.31	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	2.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	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	97.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	98.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	182 Â°C @Thickness 3.20 mm	360 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 Â°C	135 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	58.0 Â°C @Thickness 3.20 mm	136 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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