

## SABIC Innovative Plastics LNP LUBRICOMP WL003 PBT

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

### Material Notes:

LNP\* LUBRICOMP\* WL003 is a compound based on PBT resin containing 15% PTFE. Added feature of th is grade is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL003-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL003-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
	1.396 g/cc	0.05043 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	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	
	0.041 cm/cm	0.041 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	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	6.4 %	6.4 %	5 mm/min; ISO 527
	7.7 %	7.7 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.7 %	5.7 %	5 mm/min; ISO 527
	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.78 GPa	403 ksi	50 mm/min; ASTM D638
	2.87 GPa	416 ksi	1 mm/min; ISO 527
	2.19 GPa	318 ksi	1.3 mm/min, 50 mm span; ASTM

Flexural Modulus Mechanical Properties	Metric	English	D790 Comments
	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/m <sup>2</sup>	12.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	40.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	20.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	177 °C @Thickness 3.20 mm	351 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	58.0 °C @Thickness 3.20 mm	136 °F @Thickness 0.126 in	unannealed; ASTM D648

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