

## SABIC Innovative Plastics LNP LUBRICOMP WFP36 PBT

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

### Material Notes:

LNP LUBRICOMP\* WFP36 is a compound based on PBT resin containing 30% Glass Fiber, 15% PTFE/Silicone. 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-WFP36-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WFP36-PBT.php)

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ISO 1183
	1.579 g/cc	0.05704 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	ASTM D638
	118 MPa	17100 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ASTM D638
	2.7 %	2.7 %	ISO 527
Tensile Modulus	10.28 GPa	1491 ksi	50 mm/min; ASTM D638
	11.76 GPa	1706 ksi	1 mm/min; ISO 527
Flexural Strength	189 MPa	27400 psi	ISO 178
	193 MPa	28000 psi	ASTM D790
Flexural Modulus	8.74 GPa	1270 ksi	ASTM D790

Mechanical Properties	9.35 GPa Metric	1360 ksi English	ISO 178 Comments
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.76 J/cm	10.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m <sup>2</sup>	21.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	14.0 J	10.3 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.50	0.50	ASTM D3702 Modified
Coefficient of Friction, Static	0.42	0.42	ASTM D3702 Modified
K (wear) Factor	274 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	136 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 1.8 MPa (264 psi)	213 °C	415 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 °C @Thickness 3.20 mm	415 °F @Thickness 0.126 in	unannealed; ASTM D648

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