

## SABIC Innovative Plastics LNP LUBRICOMP WFL33 PBT

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

### Material Notes:

LNP\* LUBRICOMP\* WFL33 is a compound based on PBT containing 15% Glass Fiber, 15% 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-WFL33-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WFL33-PBT.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
	87.0 MPa	12600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	90.0 MPa	13100 psi	5 mm/min; ISO 527
Elongation at Break	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	6.19 GPa	898 ksi	1 mm/min; ISO 527
	6.35 GPa	921 ksi	50 mm/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	ISO 178
	149 MPa	21600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	150 MPa	21800 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	5.51 GPa Metric	799 ksi English	2 mm/min; ISO 178 Comments
	5.70 GPa	827 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.620 J/cm	1.16 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.98 J/cm	11.2 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)	38.0 kJ/m <sup>2</sup>	18.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	4.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	107 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	53.0 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	44.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	24.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	118 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	221 Â°C	430 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 Â°C	385 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C @Thickness 3.20 mm	405 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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