

## SABIC Innovative Plastics LNP LUBRICOMP RBL36XXJ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RBL36XXJ is a compound based on Nylon 66 containing 30% Glass Bead, 15% PTFE. Added features of this grade include: Low Extractable, Healthcare, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RBL36XXJ-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RBL36XXJ-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.410 %	0.410 %	50% RH, 24 hrs; ASTM D570
	0.580 %	0.580 %	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	0.010 - 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	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
	64.0 MPa	9280 psi	5 mm/min; ISO 527
Elongation at Break	8.3 %	8.3 %	5 mm/min; ISO 527
	10 %	10 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	8.5 %	8.5 %	Type I, 5 mm/min; ASTM D638
	3.93 GPa	570 ksi	1 mm/min; ISO 527
Tensile Modulus	3.99 GPa	579 ksi	5 mm/min; ASTM D638
	107 MPa	15500 psi	ISO 178
Flexural Modulus	3.56 GPa	516 ksi	2 mm/min; ISO 178
	3.74 GPa	542 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.510 J/cm	0.955 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.35 J/cm	8.15 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.34 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
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 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	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	16.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	8.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	82.6 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	41.0 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	83.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	69.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	203 Â°C	397 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	236 Â°C @Thickness 3.20 mm	457 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Â°C	163 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	83.0 Â°C @Thickness 3.20 mm	181 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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