

## SABIC Innovative Plastics LNP Lubricomp RL001 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

### Material Notes:

LNP Lubricomp\* RL001 is a Nylon 6/6 base resin containing PTFE lubricant. Characteristics are internally lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Lubricomp-RL001-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-RL001-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ISO 1183
	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	1.4 %	1.4 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.94 %	0.94 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	78.0 MPa	11300 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	78.0 MPa	11300 psi	5 mm/min; ISO 527
	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.6 %	3.6 %	5 mm/min; ISO 527
	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.6 %	3.6 %	5 mm/min; ISO 527
	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.44 GPa	499 ksi	50 mm/min; ASTM D 638
	3.73 GPa	541 ksi	1 mm/min; ISO 527
Flexural Strength	101 MPa	14600 psi	ISO 178

Flexural Modulus Mechanical Properties	2.86 GPa Metric	415 ksi English	2 mm/min; ISO 178 Comments
	2.94 GPa	426 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.360 J/cm @Temperature 23.0 Â°C	0.674 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.90 J/cm @Temperature 23.0 Â°C	11.1 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	57.0 kJ/mÂ² @Temperature 23.0 Â°C	27.1 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	10.0 J	7.38 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.50	0.50	ASTM D 3702 Modified
Coefficient of Friction, Static	0.39	0.39	ASTM D 3702 Modified
K (wear) Factor	359 x 10 <sup>-8</sup> mmÂ³/N-M	178 x 10 <sup>-10</sup> inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	164 Â°C	327 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	224 Â°C @Thickness 3.20 mm	435 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	69.0 Â°C	156 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	72.0 Â°C @Thickness 3.20 mm	162 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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