

## SABIC Innovative Plastics LNP LUBRICOMP RL004S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRICOMP\* RL004S is a compound based on Nylon 66 resin containing 20% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL004S-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL004S-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792
	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.550 %	0.550 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0188 - 0.0329 cm/cm	0.0188 - 0.0329 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.019 - 0.033 cm/cm	0.019 - 0.033 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0188 - 0.0329 cm/cm	0.0188 - 0.0329 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.019 - 0.033 cm/cm	0.019 - 0.033 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ISO 527
	63.0 MPa	9140 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	6.2 %	6.2 %	ASTM D638
	7.2 %	7.2 %	ISO 527
Elongation at Yield	5.4 %	5.4 %	ASTM D638
	6.7 %	6.7 %	ISO 527
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.60 GPa Metric	377 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	84.0 MPa	12200 psi	ISO 178
	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.27 GPa	329 ksi	ASTM D790
	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.71 J/cm	10.7 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)	39.0 kJ/m <sup>2</sup>	18.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.21	0.21	ASTM D3702 Modified
K (wear) Factor	32.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	16.0 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	97.2 Åµm/m-Å°C	54.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	79.2 Åµm/m-Å°C	44.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Å°C	149 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	70.0 Å°C	158 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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