

## SABIC Innovative Plastics LNP LUBRICOMP RP004 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRICOMP\* RP004 is a compound based on Nylon 66 resin containing 20% 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-RP004-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RP004-PA-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.840 %	0.840 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	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	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	
Elongation at Break	22.6 %	22.6 %	Type I, 5 mm/min; ASTM D638
	26.6 %	26.6 %	
Elongation at Yield	22 %	22 %	Type I, 5 mm/min; ASTM D638
	26 %	26 %	
Tensile Modulus	2.61 GPa	379 ksi	50 mm/min; ASTM D638
	2.72 GPa	395 ksi	
Flexural Modulus	2.26 GPa	328 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.39 GPa	347 ksi	

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.530 J/cm	0.493 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.48 J/cm	6.52 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	88.0 kJ/m <sup>2</sup>	41.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 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	0.010	0.010	ASTM D3702 Modified
Coefficient of Friction, Static	0.040	0.040	ASTM D3702 Modified
K (wear) Factor	6.04 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	3.00 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	84.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	94.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	200 Â°C	392 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	237 Â°C @Thickness 3.20 mm	459 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C	145 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	64.0 Â°C @Thickness 3.20 mm	147 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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