

## SABIC Innovative Plastics LNP LUBRICOMP RP004S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RP004S is a compound based on Nylon 66 containing PTFE/Silicone. Added features of this grade include: Heat Stabilized, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RP004S-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RP004S-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	0.860 %	0.860 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	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	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
	64.0 MPa	9280 psi	5 mm/min; ISO 527
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	65.0 MPa	9430 psi	5 mm/min; ISO 527
Elongation at Break	18 %	18 %	Type I, 5 mm/min; ASTM D638
	19 %	19 %	5 mm/min; ISO 527
Elongation at Yield	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D638
	4.8 %	4.8 %	5 mm/min; ISO 527
Tensile Modulus	2.75 GPa	399 ksi	1 mm/min; ISO 527
	2.95 GPa	428 ksi	50 mm/min; ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Modulus	2.15 GPa	312 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 2.22 GPa	English 322 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.6 J/cm	25.5 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)	115 kJ/m <sup>2</sup>	54.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.11	0.11	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	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	115 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	63.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	113 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	62.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	154 Â°C	309 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	184 Â°C @Thickness 3.20 mm	363 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 Â°C	135 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	57.0 Â°C @Thickness 3.20 mm	135 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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