

## SABIC Innovative Plastics LNP LUBRICOMP RX03643H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RX03643H is a compound based on Nylon 66 resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX03643H-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX03643H-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.900 %	0.900 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0079 cm/cm	0.0079 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527
	96.0 MPa	13900 psi	ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	ISO 527
	96.0 MPa	13900 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Elongation at Yield	2.3 %	2.3 %	ISO 527
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	5.31 GPa	770 ksi	1 mm/min; ISO 527

Mechanical Properties	5.51 GPa Metric	799 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	149 MPa	21600 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
	4.82 GPa	699 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.21 J/cm	7.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.37	0.37	ASTM D3702 Modified
K (wear) Factor	318 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	158 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	42.0 Åµm/m-Å°C	23.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	43.2 Åµm/m-Å°C	24.0 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	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	75.0 Åµm/m-Å°C	41.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	252 Å°C	486 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	256 Å°C	493 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	221 Å°C	430 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	238 K C	450 K F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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