

## SABIC Innovative Plastics LNP LUBRICOMP RFL36XXY PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RFL36XXY is a compound based on Nylon 66 containing 30% Glass Fiber, 15% PTFE. Added feature of this grade is:  
Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36XXY-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36XXY-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ASTM D792
	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0032 cm/cm	0.0032 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0115 cm/cm	0.0115 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	138 MPa	20000 psi	5 mm/min; ISO 527
	139 MPa	20200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	9.80 GPa	1420 ksi	1 mm/min; ISO 527
	11.23 GPa	1629 ksi	50 mm/min; ASTM D638
Flexural Strength	211 MPa	30600 psi	ISO 178
	236 MPa	34200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric <sup>1</sup>	English <sup>1</sup>	Comments <sup>1</sup>
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.07 J/cm	17.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	7.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	51.0 kJ/m <sup>2</sup>	24.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 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	0.59	0.59	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D3702 Modified
K (wear) Factor	24.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	12.0 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	37.8 µm/m-°C	21.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	37.9 µm/m-°C	21.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	248 °C	478 °F	Flatw 80*10*4 sp=64mm; ISO 75/af
	248 °C @Thickness 3.20 mm	478 °F @Thickness 0.126 in	

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