

# LNP™ LUBRICOMP™ RX01514 compound

Polyamide 66

SABIC Innovative Plastics

## Message:

LNP LUBRICOMP RX01514 is a compound based on Nylon 66 resin containing Proprietary Filler(s). Added features of this material include: Internally Lubricated.

Also known as: LNP\* LUBRICOMP\* Compound PDX-R-01514

Product reorder name: RX01514

General Information			
Filler / Reinforcement	Proprietary packing		
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15	g/cm <sup>3</sup>	ASTM D792
--	1.14	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.0 - 1.2	%	ASTM D955
Transverse flow: 24 hours	1.2 - 1.4	%	ASTM D955
Vertical flow direction: 24 hours	1.3	%	ISO 294-4
Flow direction: 24 hours	1.1	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- <sup>1</sup>	3450	MPa	ASTM D638
--	3400	MPa	ISO 527-2/1
Tensile Strength			
Yield	84.8	MPa	ASTM D638
Yield	80.0	MPa	ISO 527-2
Fracture	71.7	MPa	ASTM D638
Fracture	78.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.2	%	ASTM D638
Yield	4.0	%	ISO 527-2
Fracture	21	%	ASTM D638
Fracture	19	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	2800	MPa	ISO 178

Flexural Stress	96.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.82		ASTM D3702 Modified
With Self-Static	0.63		ASTM D3702 Modified
Wear Factor - Washer	67.5	10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr	ASTM D3702 Modified
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
<b>Notched Izod Impact</b>			
23°C	43	J/m	ASTM D256
23°C <sup>2</sup>	4.9	kJ/m <sup>2</sup>	ISO 180/1A
<b>Unnotched Izod Impact</b>			
23°C	1900	J/m	ASTM D4812
23°C <sup>3</sup>	250	kJ/m <sup>2</sup>	ISO 180/1U
<b>Instrumented Dart Impact</b>			
23°C, Energy at Peak Load	29.1	J	ASTM D3763
--	48.0	J	ISO 6603-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
<b>Deflection Temperature Under Load</b>			
0.45 MPa, unannealed, 3.20mm	184	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span <sup>4</sup>	156	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	66.1	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span <sup>5</sup>	62.0	°C	ISO 75-2/Af
<b>Linear thermal expansion coefficient</b>			
Flow: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.6E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.7E-5	cm/cm/°C	ISO 11359-2
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	277 - 288	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
<b>NOTE</b>			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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#### Recommended distributors for this material

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