

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 feature of this material is: Wear Resistant.

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

Product reorder name: RX01514

General Information			
Filler / Reinforcement	Proprietary		
Features	Good Wear Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15	g/cm ³	ASTM D792
--	1.14	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.2 to 1.4	%	ASTM D955
Across Flow : 24 hr	1.3	%	ISO 294-4
Flow : 24 hr	1.1	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	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
Break	71.7	MPa	ASTM D638
Break	78.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.2	%	ASTM D638
Yield	4.0	%	ISO 527-2
Break	21	%	ASTM D638
Break	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		

vs. Itself - Dynamic	0.82		
vs. Itself - Static	0.63		
Wear Factor - Washer	67.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	4.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1900	J/m	ASTM D4812
23°C ³	250	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	29.1	J	ASTM D3763
--	48.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	184	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	156	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	66.1	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	62.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	8.6E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.7E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
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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