

LNP™ LUBRICOMP™ RI001 compound

Polyamide 66
SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP RI001 is a compound based on Nylon 66 resin containing 2% Silicone. Added feature of this grade is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RL-4410
Product reorder name: RI001

General Information			
UL YellowCard	E121562-101344711		
Additive	Silicone lubricant (2%)		
Features	Good wear resistance		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.15	g/cm ³	ASTM D792
--	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	2.0 - 4.0	%	ASTM D955
Transverse flow: 24 hours	2.0 - 4.0	%	ASTM D955
Water Absorption			
24 hr, 50% RH	1.2	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3210	MPa	ASTM D638
--	2930	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	61.0	MPa	ASTM D638
Fracture	68.0	MPa	ISO 527-2/5
Tensile Strain			
Yield	3.7	%	ISO 527-2/5
Fracture ³	2.6	%	ASTM D638
Fracture	4.4	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	2910	MPa	ASTM D790
-- ⁵	2690	MPa	ISO 178
Flexural Stress	96.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

With self-dynamics	0.44		ASTM D3702 Modified
With Self-Static	0.27		ASTM D3702 Modified
Wear Factor			ASTM D3702 Modified
Ring	-0.300	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Washer	104	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	45	J/m	ASTM D256
23°C ⁶	5.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ⁷	210	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.10	J	ASTM D3763
--	0.700	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	241	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁸	164	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	66.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	59.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -30 to 30°C	8.3E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	8.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
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	
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	80*10*4		

7.	80*10*4
8.	80*10*4 mm
9.	80*10*4 mm

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