

LNP™ LUBRICOMP™ RN001S compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RN001S is a compound based on Nylon 66 resin containing MOS2. Added features of this material include: Internally Lubricated, Heat Stabilized.

Also known as: LNP* LUBRICOMP* Compound R- HS

Product reorder name: RN001S

General Information			
Additive	Molybdenum disulfide lubricant heat stabilizer		
Features	Thermal Stability Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.16	g/cm ³	ASTM D792
--	1.17	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4140	MPa	ASTM D638
--	3910	MPa	ISO 527-2/1
Tensile Strength			
Yield	84.1	MPa	ASTM D638
Yield	69.0	MPa	ISO 527-2
Fracture	84.1	MPa	ASTM D638
Fracture	69.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.9	%	ASTM D638
Yield	2.1	%	ISO 527-2
Fracture	3.8	%	ASTM D638
Fracture	42	%	ISO 527-2
Flexural Modulus			
--	3450	MPa	ASTM D790
--	3400	MPa	ISO 178
Flexural Stress	107	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.75		ASTM D3702 Modified

With Self-Static	0.55		ASTM D3702 Modified
Wear Factor - Washer	103	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	27	J/m	ASTM D256
23°C ²	2.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	54	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	2.30	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	231	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	223	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	76.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	301	°C	ISO 75-2/Af
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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