

LNP™ LUBRICOMP™ RN001S compound

Polyamide 66

SABIC Innovative Plastics

Message:

Lubricated Polyamide 66 injection moulding resin.

Also known as: LNP* LUBRICOMP* Compound RL4210S1

Product reorder name: RN001S

General Information			
Additive	Lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.6 - 2.0	%	Internal method
Water Absorption (Saturation, 23°C)	8.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress (Yield)	92.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.5	%	ISO 527-2/50
Fracture	30	%	ISO 527-2/50
Flexural Modulus ²	3300	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	> 50	kJ/m ²	ISO 179/1eU
Notched Izod Impact ⁴			ISO 180/1A
-40°C	2.0	kJ/m ²	ISO 180/1A
-20°C	3.0	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 100 mm span	230	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	90.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	252	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	7.8E-5	cm/cm/°C	ISO 11359-2

Lateral: 23 to 60°C	7.8E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Testing by SABIC)	HB		UL 94
Oxygen Index	26	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 85.0	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.20	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	260 - 280	°C	
Nozzle Temperature	250 - 270	°C	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	70.0 - 90.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	120*10*4 mm		

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