

LNP™ THERMOTUF™ RN001IX4 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP RN001IX4 is a compound based on PA 66 resin containing MoS2. Added features include: Internally Lubricated, High Impact, Heat Stabilized.
Also known as: LNP* THERMOTUF* Compound RL4210HI
Product reorder name: RN001IX4

General Information			
Additive	Heat Stabilizer		
	Molybdenum Disulfide Lubricant		
Features	Heat Stabilized		
	High Impact Resistance		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2/1
Tensile Stress (Break)	45.0	MPa	ISO 527-2/5
Tensile Strain (Break)	97	%	ISO 527-2/5
Flexural Modulus ¹	1300	MPa	ISO 178
Flexural Stress	49.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	42	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	212	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	62.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.2E-4	cm/cm/°C	
Transverse : 23 to 60°C	6.7E-5	cm/cm/°C	
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. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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