

LNP* Thermotuf* RN001IX4

Polyamide 66

SABIC Innovative Plastics Europe



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Technical Data

Product Description

LNP* LUBRICOMP* RN001X4 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

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
Search for UL Yellow Card	• SABIC Innovative Plastics Europe • LNP* Thermotuf*		
Availability	• Europe		
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 ³	1300 MPa	ISO 178
Flexural Strength ^{3,4}	49.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	42 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	No Break	ISO 180/1U
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁶		
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	0.00012 cm/cm/°C	
Transverse: 23 to 60°C	0.000067 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	

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Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ 2.0 mm/min
- ⁴ Yield
- ⁵ 80*10*4
- ⁶ 80*10*4 mm

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SABIC Innovative Plastics Europe

Where to Buy

Supplier

SABIC Innovative Plastics Europe

, Netherlands

Telephone: +36-1-238-5060

Web: <http://www.sabic-ip.com/>

Distributor

Please contact the supplier to find a distributor for LNP* Thermotuf* RN001IX4



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