

LNP™ LUBRICOMP™ RFN16 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFN16 is a compound based on Nylon 66 resin containing Glass Fiber, MOS2. Added features of this material include: wear resistant

Also known as: LNP* LUBRICOMP* Compound RFL-4216

Product reorder name: RFN16

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	Molybdenum disulfide lubricant		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.50	%	Internal method
Water Absorption (23°C, 24 hr)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9100	MPa	ISO 527-2/1
Tensile Stress (Yield)	168	MPa	ISO 527-2/5
Tensile Strain (Break)	3.1	%	ISO 527-2/5
Flexural Modulus ¹	8900	MPa	ISO 178
Flexural Stress	237	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.40		ASTM D3702 Modified
With Self-Static	0.71		ASTM D3702 Modified
Wear Factor - Washer	62.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	260	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	249	°C	ISO 75-2/ Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
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	282 - 304	°C
Mold Temperature	93.3 - 110	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 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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