

LNP™ LUBRILOY™ RF203 compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP LUBRILOY RF203 is a compound based on PA 66 resin containing Glass Fiber, Proprietary Lubricant. Added features include: Internally Lubricated.

General Information			
UL YellowCard	E45329-101283833		
Filler / Reinforcement	Glass Fiber		
Additive	Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30 to 0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.37	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5300	MPa	ISO 527-2/1
Tensile Stress (Break)	99.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ¹	4100	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	122	MPa	
-- ⁴	133	MPa	
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.30		
Wear Factor - Washer	70.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 64.0 mm Span	245	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	185	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.1E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.3E-4	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	271 to 282	°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. | 2.0 mm/min |
| 3. | Break |
| 4. | Yield |
| 5. | 80*10*4 |
| 6. | 80*10*4 |
| 7. | 80*10*4 mm |

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