

LNP™ LUBRILOY™ R2000 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRILOY R2000 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRILOY* Compound R

Product reorder name: R2000

General Information			
UL YellowCard	E45329-101344477		
Additive	Lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	15.0 - 20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow: 24 hours	1.8 - 2.2	%	ASTM D955
Transverse flow: 24 hours	2.1 - 3.1	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	53.0	MPa	ISO 527-2/50
Tensile Strain (Break)	32	%	ISO 527-2/50
Flexural Modulus ¹			ISO 178
--	2100	MPa	ISO 178
60°C	800	MPa	ISO 178
100°C	500	MPa	ISO 178
Flexural Stress			ISO 178
--	77.0	MPa	ISO 178
60°C	32.0	MPa	ISO 178
100°C	18.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.36		ASTM D3702 Modified
With Self-Static	0.27		ASTM D3702 Modified
Flexural Strain at Break ²			ISO 178
--	7.0	%	ISO 178
60°C	7.0	%	ISO 178
100°C	7.0	%	ISO 178

Wear Factor - Washer	50.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	140	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	85.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	7.7E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.0E-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	271 - 282	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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