

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	E207780-101343870		
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
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 Modulus ¹	2410	MPa	ASTM D638
Tensile Strength			
Yield	56.9	MPa	ASTM D638
Fracture	55.4	MPa	ASTM D638
Fracture	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	14	%	ASTM D638
Fracture	27	%	ASTM D638
Fracture	32	%	ISO 527-2
Flexural Modulus			
--	2320	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			
--	82.2	MPa	ASTM D790
--	65.0	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
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			
23°C	62	J/m	ASTM D256
23°C ²	6.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C ³	140	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	77.8	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	85.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	7.7E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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