

LNP™ LUBRILOY™ R2000A compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRILOY* R2000A 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 RL
Product reorder name: R2000A

General Information			
UL YellowCard	E207780-101283851		
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.6	%	ASTM D955
Transverse flow: 24 hours	2.6	%	ASTM D955
Vertical flow direction: 24 hours	2.6	%	ISO 294-4
Flow direction: 24 hours	2.6	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.30	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.43	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/1
Tensile Strength			
Yield	47.8	MPa	ASTM D638
Yield	43.8	MPa	ISO 527-2
Fracture	43.4	MPa	ASTM D638
Fracture	43.5	MPa	ISO 527-2
Tensile Elongation			
Yield	6.0	%	ASTM D638
Yield	8.8	%	ISO 527-2
Fracture	39	%	ASTM D638
Fracture	30	%	ISO 527-2
Flexural Modulus			
--	1930	MPa	ASTM D790
--	2200	MPa	ISO 178

Flexural Strength			
--	67.8	MPa	ASTM D790
--	69.9	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.32		ASTM D3702 Modified
With Self-Static	0.27		ASTM D3702 Modified
Wear Factor - Washer	12.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	6.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C ³	140	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.40	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	66.1	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	62.8	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	67.0	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
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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