

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 feature of this material is: Wear Resistant.
Also known as: LNP* LUBRILOY* Compound RL
Product reorder name: R2000A

General Information			
UL YellowCard	E121562-101283902		
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.6	%	
Across Flow : 24 hr	2.6	%	
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
Break	43.4	MPa	ASTM D638
Break	43.5	MPa	ISO 527-2
Tensile Elongation			
Yield	6.0	%	ASTM D638
Yield	8.8	%	ISO 527-2
Break	39	%	ASTM D638
Break	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
vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.27		
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, 3.20 mm	66.1	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	62.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm 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 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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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