SABIC Innovative Plastics™



LNP* Lubriloy* Compound R2000A Americas: COMMERCIAL

Also known as: RL

Product Reorder Name: R2000A

LNP LUBRILOY* R2000A is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES (1)					
MECHANICAL	Value	Unit	Standard		
Tensile Stress, yield	47	MPa	ASTM D 638		
Tensile Stress, break	43	MPa	ASTM D 638		
Tensile Strain, yield	6	%	ASTM D 638		
Tensile Strain, break	38.6	%	ASTM D 638		
Tensile Modulus, 50 mm/min	1990	MPa	ASTM D 638		
Flexural Stress	67	MPa	ASTM D 790		
Flexural Modulus	1930	MPa	ASTM D 790		
Tensile Stress, yield	43	MPa	ISO 527		
Tensile Stress, break	43	MPa	ISO 527		
Tensile Strain, yield	8.8	%	ISO 527		
Tensile Strain, break	29.6	%	ISO 527		
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527		
Flexural Stress	69	MPa	ISO 178		
Flexural Modulus	2200	MPa	ISO 178		
IMPACT	Value	Unit	Standard		
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812		
Izod Impact, notched, 23°C	74	J/m	ASTM D 256		
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763		
Multiaxial Impact	1	J	ISO 6603		
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m²	ISO 180/1U		
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A		
THERMAL	Value	Unit	Standard		
HDT, 0.45 MPa, 3.2 mm, unannealed	66	°C	ASTM D 648		

62	°C	ASTM D 648
67	°C	ISO 75/Af
Value	Unit	Standard
1.02	g/cm³	ASTM D 792
0.3	%	ASTM D 570
2.6	%	ASTM D 955
2.6	%	ASTM D 955
2.57	%	ISO 294
2.6	%	ISO 294
12	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
0.31	-	ASTM D 3702 Modified
0.27	-	ASTM D 3702 Modified
1.02	g/cm³	ISO 1183
0.43	%	ISO 62
Value	Unit	Standard
1.5	mm	UL 94 by GE
	67 Value 1.02 0.3 2.6 2.6 2.57 2.6 12 0.31 0.27 1.02 0.43 Value	67 °C Value Unit 1.02 g/cm³ 0.3 % 2.6 % 2.6 % 2.57 % 2.6 % 12 10^-10 in^5-min/ft-lb-hr 0.31 - 0.27 - 1.02 g/cm³ 0.43 % Value Unit

Source GMD, last updated:09/30/2004

Processing

Parameter					
Injection Molding	Value	Unit			
Drying Temperature	80	°C			
Drying Time	4	hrs			
Maximum Moisture Content	0.15 - 0.25	%			
Melt Temperature	270 - 280	°C			
Front - Zone 3 Temperature	295 - 305	°C			
Middle - Zone 2 Temperature	280 - 295	°C			
Rear - Zone 1 Temperature	265 - 275	°C			
Mold Temperature	80 - 95	°C			
Back Pressure	0.2 - 0.3	MPa			
Screw Speed	30 - 60	rpm			

Source GMD, last updated:09/30/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.

- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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