

LNP™ LUBRILOY™ COMPOUND R2000

R
REGION ASIA

DESCRIPTION

LNP LUBRILOY R2000 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	56	MPa	ASTM D 638
Tensile Stress, break	55	MPa	ASTM D 638
Tensile Strain, yield	14	%	ASTM D 638
Tensile Strain, break	27	%	ASTM D 638
Tensile Modulus, 50 mm/min	2410	MPa	ASTM D 638
Flexural Stress	82	MPa	ASTM D 790
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, break	32.3	%	ISO 527
Flexural Stress	65	MPa	ISO 178
Flexural Modulus	2000000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1724	J/m	ASTM D 4812
Izod Impact, notched, 23°C	62	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	141	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	77	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.74E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.03E-04	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	85	°C	ISO 75/Af
PHYSICAL			
Density	1.03	g/cm ³	ASTM D 792

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.8 – 2.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.1 – 3.1	%	ASTM D 955
Wear Factor Washer	50	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.36	-	ASTM D 3702 Modified: Manual
Static COF	0.27	-	ASTM D 3702 Modified: Manual
Density	1.03	g/cm ³	ISO 1183
MECHANICAL PROPERTIES			
Flexural modulus	2310	MPa	ISO 178/1A
INJECTION MOLDING			
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	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.