LNP™ LUBRILOY™ COMPOUND R2000A

RL
REGION ASIA

DESCRIPTION

LNP LUBRILOY* R2000A is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190609

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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			
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			
HDT, 0.45 MPa, 3.2 mm, unannealed	66	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	62	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	67	°C	ISO 75/Af
Relative Temp Index, Elec [1]	65	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	65	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	65	°C	UL 746B
PHYSICAL			
Density	1.02	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.6	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	2.57	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.6	%	ISO 294
Wear Factor Washer	12	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.31	-	ASTM D 3702 Modified: Manual
Static COF	0.27	-	ASTM D 3702 Modified: Manual
Density	1.02	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.43	%	ISO 62
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101283851	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
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	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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