



LNP™ LUBRILOY™ Compound U2000A

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound U

Product reorder name: U2000A

LNP LUBRILOY U2000A is a compound based on Polyphthalamide resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Modulus, 50 mm/min	35100	kgf/cm ²	ASTM D 638
Flexural Modulus	28100	kgf/cm ²	ASTM D 790
Tensile Modulus, 1 mm/min	3530	MPa	ISO 527
IMPACT			
Izod Impact, unnotched, 23°C	137	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	48	cm-kgf	ASTM D 3763
Multiaxial Impact	166	cm-kgf	ISO 6603
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	163	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	106	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.02E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.02E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.1E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	183	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Af
PHYSICAL			
Density	1.14	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.7	%	ISO 294



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	1.7	%	ISO 294
Wear Factor Washer	20	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	7	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.22	-	ASTM D 3702 Modified
Static COF	0.22	-	ASTM D 3702 Modified
Density	1.14	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	310 - 315	°C
Front - Zone 3 Temperature	305 - 315	°C
Middle - Zone 2 Temperature	305 - 315	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm