LNP™ LUBRILOY™ Compound R2000

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound R
Product reorder name: R2000

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

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	580	kgf/cm²	ASTM D 638
Tensile Stress, break	560	kgf/cm²	ASTM D 638
Tensile Strain, yield	14	%	ASTM D 638
Tensile Strain, break	27	%	ASTM D 638
Tensile Modulus, 50 mm/min	24600	kgf/cm²	ASTM D 638
Flexural Stress	830	kgf/cm²	ASTM D 790
Flexural Modulus	23600	kgf/cm²	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	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	175	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	141	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	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/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
PHYSICAL			
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
Dynamic COF	0.36	-	ASTM D 3702 Modified
Static COF	0.27	-	ASTM D 3702 Modified
Density	1.03	g/cm³	ISO 1183

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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