



LNP™ LUBRILOY™ Compound D2000P

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound D-EP

Product reorder name: D2000P

LNP LUBRILOY™ D2000P is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Exceptional Processing, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	570	kgf/cm ²	ASTM D 638
Tensile Stress, break	470	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.9	%	ASTM D 638
Tensile Strain, break	42.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	19600	kgf/cm ²	ASTM D 638
Flexural Stress	880	kgf/cm ²	ASTM D 790
Flexural Modulus	23200	kgf/cm ²	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, yield	5.3	%	ISO 527
Tensile Strain, break	43.1	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Stress	86	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	46	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	410	cm-kgf	ASTM D 3763
Multiaxial Impact	441	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D 648



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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.12E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.27E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.12E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.28E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
PHYSICAL			
Density	1.17	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.84	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.81	%	ISO 294
Wear Factor Washer	44	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.19	-	ASTM D 3702 Modified
Static COF	0.15	-	ASTM D 3702 Modified
Density	1.17	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	100	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 315	°C
Front - Zone 3 Temperature	305 - 315	°C
Middle - Zone 2 Temperature	300 - 310	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm