



LNP™ LUBRILOY™ Compound D2000I

Americas: COMMERCIAL

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

Product reorder name: D2000I

LNP LUBRILOY D2000I is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Wear Resistant, High Impact.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	500	kgf/cm ²	ASTM D 638
Tensile Stress, break	550	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	130	%	ASTM D 638
Flexural Stress	700	kgf/cm ²	ASTM D 790
Flexural Modulus	18900	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	179	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	79	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -40°C	55	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 -40°C	43	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	120	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.31E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.35E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.01E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.54E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.17	g/cm ³	ASTM D 792
Wear Factor Washer	35	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.32	-	ASTM D 3702 Modified
Static COF	0.22	-	ASTM D 3702 Modified



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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