LNP™ LUBRILOY™ COMPOUND D2000P

D-EP
REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20190607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	56	MPa	ASTM D 638
Tensile Stress, break	46	MPa	ASTM D 638
Tensile Strain, yield	5.9	%	ASTM D 638
Tensile Strain, break	42.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	1930	MPa	ASTM D 638
Flexural Stress	86	MPa	ASTM D 790
Flexural Modulus	2270	MPa	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	J/m	ASTM D 4812
Izod Impact, notched, 23°C	453	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	40	J	ASTM D 3763
Multiaxial Impact	43	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	12	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	137	°C	ASTM D 648
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
Relative Temp Index, Elec (1)	80	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	80	°C	UL 746B
PHYSICAL			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.17	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.84	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.81	%	ISO 294
Wear Factor Washer	44	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.19	-	ASTM D 3702 Modified: Manual
Static COF	0.15	-	ASTM D 3702 Modified: Manual
Density	1.17	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101283839	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
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	

(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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