

LNP™ LUBRILOY™ D2000 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRILOY* D2000 is a compound based on Polycarbonate resin containing a Proprietary Non-Halogenated Lubrication System. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRILOY* Compound D

Product reorder name: D2000

General Information			
UL YellowCard	E121562-101283866		
Additive	Lubricant		
Features	Good Wear Resistance		
	Halogen Free		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
	1.17		
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.81	%	ISO 294-4
Flow : 24 hr	0.84	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.14	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2050	MPa	ASTM D638
--	2090	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/5
Break ³	46.0	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	6.1	%	ASTM D638

Yield	6.6	%	ISO 527-2/5
Break ⁵	47	%	ASTM D638
Break	170	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2170	MPa	ASTM D790
-- ⁷	1970	MPa	ISO 178
Flexural Stress	77.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.31		
vs. Itself - Static	0.22		
Wear Factor - Washer	38.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	690	J/m	ASTM D256
23°C ⁸	60	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Instrumented Dart Impact			
23°C, Total Energy	50.0	J	ASTM D3763
--	42.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	142	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	139	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	131	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	128	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.6E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	299 to 310	°C	
Front Temperature	304 to 316	°C	
Processing (Melt) Temp	304 to 316	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			

1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

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Recommended distributors for this material

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