

LNP™ LUBRILOY™ D2000P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRILOY* D2000P is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include:
Exceptional Processing, Wear Resistant.
Also known as: LNP* LUBRILOY* Compound D-EP
Product reorder name: D2000P

General Information			
UL YellowCard	E121562-101283868		
Additive	Lubricant		
Features	Good Processability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
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	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1930	MPa	ASTM D638
--	2100	MPa	ISO 527-2/1
Tensile Strength			
Yield	56.4	MPa	ASTM D638
Yield	54.3	MPa	ISO 527-2
Break	46.4	MPa	ASTM D638
Break	46.1	MPa	ISO 527-2
Tensile Elongation			
Yield	5.9	%	ASTM D638
Yield	5.3	%	ISO 527-2
Break	42	%	ASTM D638
Break	43	%	ISO 527-2

Flexural Modulus			
--	2280	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			
--	86.7	MPa	ASTM D790
--	86.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.19		
vs. Itself - Static	0.16		
Wear Factor - Washer	44.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	450	J/m	ASTM D256
23°C ²	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C ³	140	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	40.3	J	ASTM D3763
--	43.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	126	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	131	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.1E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.3E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	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.	50 mm/min
2.	80*10*4
3.	80*10*4
4.	80*10*4 mm

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