

LNP™ LUBRILOY™ D2000 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRILOY* D2000 is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRILOY* Compound D
Product reorder name: D2000

General Information			
UL YellowCard	E45587-583759	E207780-101283838	
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.70 - 0.90	%	ASTM D955
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.70 - 0.90	%	ISO 294-4
Flow direction: 24 hours	0.70 - 0.90	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1860	MPa	ASTM D638
--	2150	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.7	MPa	ASTM D638
Yield	51.0	MPa	ISO 527-2
Fracture	60.2	MPa	ASTM D638
Fracture	54.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.5	%	ASTM D638
Yield	5.6	%	ISO 527-2
Fracture	130	%	ASTM D638
Fracture	99	%	ISO 527-2
Flexural Modulus	2140	MPa	ASTM D790, ISO 178
Flexural Strength			
--	82.5	MPa	ASTM D790

--	78.5	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.16		ASTM D3702 Modified
With Self-Static	0.090		ASTM D3702 Modified
Wear Factor - Washer	60.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	720	J/m	ASTM D256
23°C ²	57	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	40.1	J	ASTM D3763
--	48.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	141	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	140	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	127	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	126	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	299 - 310	°C	
Front Temperature	304 - 316	°C	
Processing (Melt) Temp	304 - 316	°C	
Mold Temperature	65.6 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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