

LNP™ LUBRILOY™ D2000AXH compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP LUBRILOY* D2000AXH is a compound based on Polycarbonate resin containing Proprietary Lubricant. Added features of this material include: Wear Resistant, Healthcare.
Also known as: LNP* LUBRILOY* Compound D2000AXH
Product reorder name: D2000AXH

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.70 to 0.90	%	
Across Flow : 24 hr	0.80 to 1.0	%	
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
--	1980	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.7	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Break	60.2	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	6.5	%	ASTM D638
Yield	6.2	%	ISO 527-2
Break	130	%	ASTM D638
Break	140	%	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
vs. Itself - Dynamic	0.16		
vs. Itself - Static	0.090		
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, 3.20 mm	141	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	140	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	127	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	126	°C	ISO 75-2/af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.4E-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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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