

LNP™ LUBRILOY™ U2000A compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP LUBRILOY U2000A is a compound based on Polyphthalamide resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRILOY* Compound U

Product reorder name: U2000A

General Information			
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.6 - 1.8	%	ASTM D955
Transverse flow: 24 hours	1.6 - 1.8	%	ASTM D955
Vertical flow direction: 24 hours	1.7	%	ISO 294-4
Flow direction: 24 hours	1.7	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3530	MPa	ISO 527-2/1
Tensile Strength			
Yield	81.4	MPa	ASTM D638
Yield	78.0	MPa	ISO 527-2
Fracture	81.4	MPa	ASTM D638
Fracture	78.0	MPa	ISO 527-2
Tensile Elongation			
Yield	3.6	%	ASTM D638
Yield	3.4	%	ISO 527-2
Fracture	3.6	%	ASTM D638
Fracture	3.4	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	2900	MPa	ISO 178
Flexural Stress	109	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.23		ASTM D3702 Modified

With Self-Static	0.23		ASTM D3702 Modified
Wear Factor - Washer	20.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	1300	J/m	ASTM D4812
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.80	J	ASTM D3763
--	16.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	164	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ³	183	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	106	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	103	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	7.1E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.1E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	304 - 316	°C	
Middle Temperature	304 - 316	°C	
Front Temperature	304 - 316	°C	
Processing (Melt) Temp	310 - 316	°C	
Mold Temperature	121 - 149	°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 mm		
4.	80*10*4 mm		

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