

LNP™ LUBRILOY™ Z2000 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRILOY Z2000 is a compound based on PPE+PS Blend resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRILOY* Compound Z
Product reorder name: Z2000

General Information			
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.89	%	ASTM D955
Transverse flow: 24 hours	1.2	%	ASTM D955
Vertical flow direction: 24 hours	1.2	%	ISO 294-4
Flow direction: 24 hours	0.89	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.064	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.072	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1820	MPa	ISO 527-2/1
Tensile Strength			
Yield	47.0	MPa	ASTM D638
Yield	38.0	MPa	ISO 527-2
Fracture	42.4	MPa	ASTM D638
Fracture	41.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.2	%	ASTM D638
Yield	3.2	%	ISO 527-2
Fracture	52	%	ASTM D638
Fracture	37	%	ISO 527-2
Flexural Modulus			
--	2090	MPa	ASTM D790
--	1860	MPa	ISO 178
Flexural Strength			
--	74.3	MPa	ASTM D790
--	58.8	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.19		ASTM D3702 Modified
With Self-Static	0.24		ASTM D3702 Modified
Wear Factor - Washer	121	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ¹	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2000	J/m	ASTM D4812
23°C ²	170	kJ/m ²	ISO 180/1U
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 ³	138	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	122	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	120	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	8.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	254 - 266	°C	
Middle Temperature	260 - 271	°C	
Front Temperature	266 - 277	°C	
Processing (Melt) Temp	277 - 293	°C	
Mold Temperature	60.0 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		
4.	80*10*4 mm		

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