LNP™ LUBRILOY™ COMPOUND Z2000

Z
REGION ASIA

DESCRIPTION

LNP LUBRILOY Z2000 is a compound based on PPO resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181231

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	46	MPa	ASTM D 638
Tensile Stress, break	42	MPa	ASTM D 638
Tensile Strain, yield	4.2	%	ASTM D 638
Tensile Strain, break	52.3	%	ASTM D 638
Flexural Stress	74	MPa	ASTM D 790
Flexural Modulus	2080	MPa	ASTM D 790
Tensile Stress, yield	38	MPa	ISO 527
Tensile Stress, break	41	MPa	ISO 527
Tensile Strain, yield	3.2	%	ISO 527
Tensile Strain, break	37.3	%	ISO 527
Tensile Modulus, 1 mm/min	1810	MPa	ISO 527
Flexural Stress	58	MPa	ISO 178
Flexural Modulus	1860	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2034	J/m	ASTM D 4812
Izod Impact, notched, 23°C	106	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	172	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	121	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.19E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.89E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Af
PHYSICAL			
Density	1.04	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.89	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.15	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.89	%	ISO 294

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Mold Shrinkage, xflow, 24 hrs	1.15	%	ISO 294
Wear Factor Washer	121	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.19	-	ASTM D 3702 Modified: Manual
Static COF	0.24	-	ASTM D 3702 Modified: Manual
Density	1.04	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	275 – 295	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	255 – 265	°C	
Mold Temperature	60 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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