LNP™ LUBRILOY™ COMPOUND K2000

REGION ASIA

DESCRIPTION

LNP LUBRILOY* K2000 is a compound based on Acetal resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors, Automotive Exteriors
Consumer	Home Decoration, Home Appliances, Recreational Vehicle
Electrical and Electronics	Electrical Devices and Displays
Healthcare	Pharmaceutical
Packaging	Consumer Packaging

TYPICAL PROPERTY VALUES

Revision 20191108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	55	MPa	ASTM D 638
Tensile Stress, break	51	MPa	ASTM D 638
Tensile Strain, yield	9.3	%	ASTM D 638
Tensile Strain, break	32.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	2060	MPa	ASTM D 638
Flexural Stress	84	MPa	ASTM D 790
Flexural Modulus	2420	MPa	ASTM D 790
Tensile Stress, yield	60	MPa	ISO 527
Tensile Stress, break	59	MPa	ISO 527
Tensile Strain, yield	9	%	ISO 527
Tensile Strain, break	13.3	%	ISO 527
Tensile Modulus, 1 mm/min	2560	MPa	ISO 527
Flexural Stress	65	MPa	ISO 178
Flexural Modulus	2420	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1356	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	48	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	158	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	110	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.15E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.11E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.15E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.11E-04	1/°C	ISO 11359-2

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Af
PHYSICAL			
Density	1.4	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.33	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.21	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.14	%	ISO 294
Wear Factor Washer	10	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.38	-	ASTM D 3702 Modified: Manual
Static COF	0.24	-	ASTM D 3702 Modified: Manual
Density	1.4	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101345248	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 – 220	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	175 – 190	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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