SABIC Innovative Plastics™



LNP* Lubriloy* Compound K2000 Americas: COMMERCIAL

Also known as: K Product Reorder Name: K2000

LNP LUBRILOY* K2000 is a compound based on Acetal resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Property

MECHANICAL	Value	Unit	Standard
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
ІМРАСТ	Value	Unit	Standard
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
Multiaxial Impact	0	J	ISO 6603
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	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	158	°C	ASTM D 648

110	°C	ASTM D 648
1.15E-04	1/°C	ASTM E 831
1.11E-04	1/°C	ASTM E 831
1.15E-04	1/°C	ISO 11359-2
1.11E-04	1/°C	ISO 11359-2
87	°C	ISO 75/Af
Value	Unit	Standard
1.4	g/cm³	ASTM D 792
0.33	%	ASTM D 570
2.2	%	ASTM D 955
2.3	%	ASTM D 955
2.21	%	ISO 294
2.14	%	ISO 294
10	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
0.38	-	ASTM D 3702 Modified
0.24	-	ASTM D 3702 Modified
1.4	g/cm³	ISO 1183
	1.15E-04 1.11E-04 1.15E-04 1.11E-04 87 Value 1.4 0.33 2.2 2.3 2.21 2.14 10 0.38 0.24	1.15E-04 1/°C 1.11E-04 1/°C 1.15E-04 1/°C 1.15E-04 1/°C 87 °C Value Unit 1.4 g/cm³ 0.33 % 2.2 % 2.14 % 10 10^-10 in^5-min/ft-lb-hr 0.38 -

Source GMD, last updated:09/30/2004

Processing

Parameter					
Injection Molding	Value	Unit			
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			

Source GMD, last updated:09/30/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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