LNP™ LUBRICOMP™ COMPOUND KL001

KL-4010
REGION ASIA

DESCRIPTION

LNP LUBRICOMP KL001 is a compound based on Acetal Copolymer resin containing 5% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	55	MPa	ASTM D 638
Tensile Stress, break	52	MPa	ASTM D 638
Tensile Strain, yield	9.8	%	ASTM D 638
Tensile Strain, break	33.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	2750	MPa	ASTM D 638
Flexural Stress	13	MPa	ASTM D 790
Flexural Modulus	3440	MPa	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, yield	11.4	%	ISO 527
Tensile Strain, break	29.6	%	ISO 527
Tensile Modulus, 1 mm/min	2620	MPa	ISO 527
Flexural Stress	70	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	64	J/m	ASTM D 4812
Izod Impact, notched, 23°C	5	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	1029	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	47	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	157	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	112	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.18E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	149	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	96	°C	ISO 75/Af
PHYSICAL			
Density	1.44	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.3	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	2.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.3	%	ISO 294
Wear Factor Washer	22	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.38	-	ASTM D 3702 Modified: Manual
Static COF	0.17	-	ASTM D 3702 Modified: Manual
Density	1.43	g/cm³	ISO 1183

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