LNP™ LUBRILOY™ COMPOUND KL201

KL
REGION ASIA

DESCRIPTION

LNP LUBRILOY* KL201 is a compound based on Acetal resin containing Proprietary Lubricant. PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	51	MPa	ASTM D 638
Tensile Strain, yield	20	%	ASTM D 638
Tensile Modulus, 50 mm/min	2650	MPa	ASTM D 638
Flexural Stress	68	MPa	ASTM D 790
Flexural Modulus	2160	MPa	ASTM D 790
Tensile Stress, yield	53	MPa	ISO 527
Tensile Modulus, 1 mm/min	3050	MPa	ISO 527
Flexural Modulus	2260	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1367	J/m	ASTM D 4812
Izod Impact, notched, 23°C	68	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	5	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	91	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.89E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.51E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	93	°C	ISO 75/Af
PHYSICAL			
Density	1.41	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.97	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.5 – 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.5 – 2.7	%	ASTM D 955
Wear Factor Washer	12	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.3	-	ASTM D 3702 Modified: Manual
Static COF	0.09	-	ASTM D 3702 Modified: Manual
Density	1.4	g/cm³	ISO 1183
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	175 – 190	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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