



LNP™ LUBRILOY™ Compound KL201

Americas: COMMERCIAL

Also known as: LNP™ LUBRILOY™ Compound KL

Product reorder name: KL201

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	520	kgf/cm ²	ASTM D 638
Tensile Strain, yield	20	%	ASTM D 638
Tensile Modulus, 50 mm/min	27000	kgf/cm ²	ASTM D 638
Flexural Stress	700	kgf/cm ²	ASTM D 790
Flexural Modulus	22000	kgf/cm ²	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	139	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	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/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.97	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.5 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.5 - 2.7	%	ASTM D 955
Wear Factor Washer	12	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Dynamic COF	0.3	-	ASTM D 3702 Modified
Static COF	0.09	-	ASTM D 3702 Modified
Density	1.4	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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