

LNP™ LUBRILOY™ KL201 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

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

Also known as: LNP* LUBRILOY* Compound KL

Product reorder name: KL201

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm ³	ASTM D792
--	1.40	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.5 to 3.0	%	
Across Flow : 24 hr	2.5 to 2.7	%	
Water Absorption (24 hr, 50% RH)	0.97	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2650	MPa	ASTM D638
--	3050	MPa	ISO 527-2/1
Tensile Strength			
Yield	51.6	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus			
--	2160	MPa	ASTM D790
--	2260	MPa	ISO 178
Flexural Strength	68.9	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.30		
vs. Itself - Static	0.090		
Wear Factor - Washer	12.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	68	J/m	ASTM D256

23°C ²	5.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	1400	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	157	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	91.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	93.4	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	8.9E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 to 188	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	210 to 221	°C	
Processing (Melt) Temp	199 to 216	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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