

LNP™ LUBRILOY™ KL201 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRILOY* KL201 is a compound based on Acetal resin containing PTFE, Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRILOY* Compound KL

Product reorder name: KL201

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
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 hours	2.5 - 3.0	%	ASTM D955
Transverse flow: 24 hours	2.5 - 2.7	%	ASTM D955
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
With self-dynamics	0.30		ASTM D3702 Modified
With Self-Static	0.090		ASTM D3702 Modified
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, 3.20mm	157	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	91.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	93.4	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	8.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 - 188	°C	
Middle Temperature	193 - 204	°C	
Front Temperature	210 - 221	°C	
Processing (Melt) Temp	199 - 216	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

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