

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		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm³	ASTM D792
--	1.40	g/cm³	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

