

LNP™ LUBRICOMP™ KN001 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP KN001 is a compound based on POM resin containing MOS2.

Also known as: LNP* LUBRICOMP* Compound KN001

Product reorder name: KN001

General Information			
Additive	Molybdenum Disulfide Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow	2.0 to 2.8	%	Internal Method
Water Absorption			ISO 62
23°C, 24 hr	0.21	%	
Equilibrium, 23°C, 50% RH	0.030	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2870	MPa	ISO 527-2/1
Tensile Stress (Yield)	59.0	MPa	ISO 527-2/5
Tensile Strain (Break)	9.2	%	ISO 527-2/5
Flexural Modulus ¹	2840	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.42		
vs. Itself - Static	0.70		
Wear Factor - Washer	122	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	150	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	83.0	°C	ISO 75-2/Af
Vicat Softening Temperature	145	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.3E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.3E-4	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. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 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

