

LNP™ LUBRICOMP™ KP002 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP002 is a compound based on Acetal Copolymer resin containing 10% PTFE/Silicone. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound KL-4520

Product reorder name: KP002

General Information			
Additive	PTFE + Silicone Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.2	%	
Across Flow : 24 hr	2.2	%	
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2330	MPa	ISO 527-2/1
Tensile Strength			
Yield	46.9	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2
Break	46.9	MPa	ASTM D638
Tensile Elongation			
Yield	26	%	ASTM D638
Yield	29	%	ISO 527-2
Break	41	%	ASTM D638
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Stress	61.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.31		
vs. Itself - Static	0.18		
Wear Factor - Washer	8.50	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	5.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	74	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.10	J	ASTM D3763
--	1.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	146	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	92.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	87.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.0E-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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	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

