

LNP™ LUBRICOMP™ KL004A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KL004A is a compound based on Acetal Homopolymer resin containing PTFE. Added features of this material include: internal lubricated. This grade was previously known as LNP Fulton* 404 D.

General Information			
Additive	PTFE lubricant		
Features	Homopolymer		
	Lubrication		

Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D955
Flow: 24 hours	2.0 - 2.2	%	ASTM D955
Transverse flow: 24 hours	2.0 - 2.2	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.23	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	2700	MPa	ISO 527-2/1
Tensile Strength ² (Break)	56.1	MPa	ASTM D638
Tensile Elongation			
Fracture ³	11	%	ASTM D638
Fracture	9.4	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	2620	MPa	ASTM D790
-- ⁵	2900	MPa	ISO 178
Flexural Strength ⁶ (Yield, 50.0 mm Span)	86.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.23		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	590	J/m	ASTM D256
23°C ⁷	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	43	J/m	ASTM D4812
23°C ⁸	39	kJ/m ²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	95.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	98.0	°C	ISO 75-2/Af
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	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

