

LNP™ LUBRICOMP™ KL004A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* KL004A is a compound based on Acetal Homopolymer resin containing 20% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* FULTON 404 D
Product reorder name: KL004A

General Information			
UL YellowCard	E121562-101281602		
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.0 to 2.2	%	
Across Flow : 24 hr	2.0 to 2.2	%	
Water Absorption			
24 hr, 50% RH	0.23	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.37	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2550	MPa	ASTM D638
--	2700	MPa	ISO 527-2/1
Tensile Strength			
Break	56.1	MPa	ASTM D638
Break	50.6	MPa	ISO 527-2
Tensile Elongation			
Break	11	%	ASTM D638
Break	9.4	%	ISO 527-2
Flexural Modulus			
--	2620	MPa	ASTM D790
--	2900	MPa	ISO 178
Flexural Strength			
--	86.0	MPa	ASTM D790
--	86.5	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.23		

vs. Itself - Static	0.091		
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	43	J/m	ASTM D256
23°C ²	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	560	J/m	ASTM D4812
23°C ³	39	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.20	J	ASTM D3763
--	0.960	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	98.0	°C	ISO 75-2/Af
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		

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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



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