

LNP™ LUBRICOMP™ KL004 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KL004 is a compound based on Acetal Copolymer containing PTFE. Added features include Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound KL-4040

Product reorder name: KL004

General Information			
UL YellowCard	E45329-101344611		
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	18.0 - 21.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	2.0 - 2.5	%	ISO 294-4
Flow direction: 24 hours	2.0 - 2.5	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Break)	47.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	10	%	ISO 527-2/5
Fracture	23	%	ISO 527-2/5
Flexural Modulus ¹			ISO 178
--	1800	MPa	ISO 178
60°C	1100	MPa	ISO 178
100°C	600	MPa	ISO 178
Flexural Stress			ISO 178
--	58.0	MPa	ISO 178
60°C	34.0	MPa	ISO 178
100°C	18.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.29		ASTM D3702 Modified
With Self-Static	0.15		ASTM D3702 Modified
Flexural Strain at Break ²			ISO 178

--	7.0	%	ISO 178
60°C	7.0	%	ISO 178
100°C	7.0	%	ISO 178
Wear Factor - Washer	10.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	98.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.1E-4	cm/cm/°C	ISO 11359-2
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.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*4		
4.	80*10*4		
5.	80*10*4 mm		

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