

LNP™ LUBRICOMP™ KL004 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* KL004 is a compound based on Acetal Copolymer resin containing PTFE. Added features of this material include: Internally Lubricated. This grade was previously found under the LNP Fulton* Tradename.
Also known as: LNP* LUBRICOMP* Compound 404
Product reorder name: KL004

General Information			
UL YellowCard	E207780-101281607		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.0 - 2.5	%	ASTM D955
Transverse flow: 24 hours	2.0 - 2.5	%	ASTM D955
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			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.26	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2140	MPa	ASTM D638
--	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield	51.1	MPa	ASTM D638
Yield	47.3	MPa	ISO 527-2
Fracture	50.9	MPa	ASTM D638
Fracture	46.5	MPa	ISO 527-2
Tensile Elongation			
Yield	11	%	ASTM D638
Yield	10	%	ISO 527-2
Fracture	18	%	ASTM D638
Fracture	23	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2600	MPa	ISO 178

Flexural Strength			
--	75.8	MPa	ASTM D790
--	79.3	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
Wear Factor - Washer	15.0	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	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	640	J/m	ASTM D4812
23°C ³	45	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.40	J	ASTM D3763
--	0.770	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	157	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	99.4	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	98.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, 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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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