

LNP™ LUBRICOMP™ KL001 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KL001 is a compound based on Acetal Copolymer resin containing PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound KL-4010
Product reorder name: KL001

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.44	g/cm ³	ASTM D792
--	1.43	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.3	%	ASTM D955
Transverse flow: 24 hours	2.3	%	ASTM D955
Vertical flow direction: 24 hours	2.3	%	ISO 294-4
Flow direction: 24 hours	2.3	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2620	MPa	ISO 527-2/1
Tensile Strength			
Yield	55.2	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2
Fracture	52.4	MPa	ASTM D638
Fracture	53.0	MPa	ISO 527-2
Tensile Strain			
Yield	11	%	ISO 527-2
Fracture	34	%	ASTM D638
Fracture	30	%	ISO 527-2
Flexural Modulus			
--	3450	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			
--	13.8	MPa	ASTM D790
--	70.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

With self-dynamics	0.38		ASTM D3702 Modified
With Self-Static	0.18		ASTM D3702 Modified
Wear Factor - Washer	22.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	5.3	J/m	ASTM D256
23°C ²	48	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	64	J/m	ASTM D4812
23°C ³	1000	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.30	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	158	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	149	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	112	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	96.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.2E-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
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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