

LNP™ LUBRICOMP™ KP003AXZ compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP003AXZ is a compound based on Acetal Homopolymer resin containing PTFE, Silicone. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound KL-4530 D
Product reorder name: KP003AXZ

General Information			
Additive	PTFE silicone lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.4	%	ASTM D955
Transverse flow: 24 hours	2.5	%	ASTM D955
Vertical flow direction: 24 hours	2.5	%	ISO 294-4
Flow direction: 24 hours	2.4	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2570	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.1	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2
Fracture	52.4	MPa	ASTM D638
Fracture	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	21	%	ASTM D638
Yield	15	%	ISO 527-2
Fracture	29	%	ASTM D638
Fracture	15	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.21		ASTM D3702 Modified
With Self-Static	0.11		ASTM D3702 Modified

Wear Factor - Washer	11.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	5.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ³	53	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	1.10	J	ASTM D3763
--	1.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	162	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	157	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	92.8	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	88.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	9.6E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	9.6E-5	cm/cm/°C	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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