

LNP™ LUBRICOMP™ KP003AXZ compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP003AXZ is a compound based on Acetal Homopolymer resin containing 15% PTFE/Silicone. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound KL-4530 D
Product reorder name: KP003AXZ

General Information			
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.4	%	
Across Flow : 24 hr	2.5	%	
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
Break	52.4	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2
Tensile Elongation			
Yield	21	%	ASTM D638
Yield	15	%	ISO 527-2
Break	29	%	ASTM D638
Break	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
vs. Itself - Dynamic	0.21		

vs. Itself - Static	0.11		
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, 3.20 mm	162	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	157	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	92.8	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	88.0	°C	ISO 75-2/Af
CLTE			
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
Transverse : -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	9.6E-5	cm/cm/°C	ISO 11359-2
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		
5.	80*10*4 mm		

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