

LNP™ LUBRICOMP™ KG002 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KG002 is a compound based on Acetal Copolymer resin containing 10% Graphite. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound KL-4320

Product reorder name: KG002

General Information			
Additive	Graphite Powder Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.3	%	
Across Flow : 24 hr	2.2	%	
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3180	MPa	ISO 527-2/1
Tensile Strength			
Yield	51.7	MPa	ASTM D638
Yield	51.0	MPa	ISO 527-2
Break	49.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield	6.9	%	ASTM D638
Yield	7.5	%	ISO 527-2
Break	20	%	ASTM D638
Break	19	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.56		
vs. Itself - Static	0.44		
Wear Factor - Washer	103	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	47	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	48	J/m	ASTM D4812
23°C ³	690	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.50	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	157	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	110	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	104	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	65.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, 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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