

LNP™ LUBRICOMP™ KG002 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KG002 is a compound based on Acetal Copolymer containing Graphite. Added features include : Internally Lubricated.

General Information			
Additive	Graphite powder lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage - Flow	2.0	%	Internal method
Water Absorption (23°C, 24 hr)	0.31	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	53.0	MPa	ISO 527-2/5
Fracture	53.0	MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Yield	5.1	%	ISO 527-2/5
Fracture	5.1	%	ISO 527-2/5
Flexural Modulus ¹	3100	MPa	ISO 178
Flexural Stress	86.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.56		ASTM D3702 Modified
With Self-Static	0.44		ASTM D3702 Modified
Wear Factor - Washer	103	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	139	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	97.0	°C	ISO 75-2/Af
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. 2.0 mm/min
2. 80*10*4
3. 80*10*4
4. 80*10*4 mm

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