

LNP™ LUBRICOMP™ KP004A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP004A is a compound based on Acetal Homopolymer containing PTFE / Silicone. Added features include: Internally Lubricated

Also known as: LNP* LUBRICOMP* Compound KL-4540 D

Product reorder name: KP004A

General Information			
Additive	PTFE silicone lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Molding Shrinkage - Flow	3.0	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	43.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	13	%	ISO 527-2/5
Flexural Modulus ¹	2100	MPa	ISO 178
Flexural Stress	61.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.25		ASTM D3702 Modified
With Self-Static	0.16		ASTM D3702 Modified
Wear Factor - Washer	9.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	85.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
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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