

LNP™ LUBRICOMP™ KP004 compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP004 is a compound based on Acetal Copolymer resin containing PTFE, Silicone.

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

Product reorder name: KP004

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 - Across Flow (24 hr)	2.1 - 2.9	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	39.0	MPa	ISO 527-2/5
Tensile Strain (Break)	> 15	%	ISO 527-2/5
Flexural Modulus ¹	1800	MPa	ISO 178
Flexural Stress	47.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.25		ASTM D3702 Modified
With Self-Static	0.14		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)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	79.0	°C	ISO 75-2/Af
CLTE - Flow (23 to 60°C)	1.1E-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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