

LNP™ LUBRICOMP™ KL004A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KL004A is a compound based on Acetal Homopolymer resin containing PTFE. Added features include: Internally Lubricated

Also known as: LNP* LUBRICOMP* Compound KL-4040D

Product reorder name: KL004A

General Information			
UL YellowCard	E45329-101281603	E45329-101343834	
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Molding Shrinkage - Flow (24 hr)	1.9 - 2.5	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	46.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	10	%	ISO 527-2/5
Flexural Modulus ¹	2400	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.22		ASTM D3702 Modified
With Self-Static	0.090		ASTM D3702 Modified
Wear Factor - Washer	12.0	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/m²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	25	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	157	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	87.0	°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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