

LNP™ LUBRICOMP™ KP004A compound

Acetal (POM) Homopolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KP004A is a compound based on Acetal Homopolymer resin containing 20% PTFE/Silicone. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound KL-4540 D
Product reorder name: KP004A

General Information			
UL YellowCard	E121562-101345276		
Additive	PTFE + Silicone Lubricant (20%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	2.1	%	
Across Flow : 24 hr	2.1	%	
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2210	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Break	50.3	MPa	ASTM D638
Break	45.0	MPa	ISO 527-2
Tensile Elongation			
Break	13	%	ASTM D638
Break	11	%	ISO 527-2
Flexural Modulus			
--	2410	MPa	ASTM D790
--	2800	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790
--	77.0	MPa	ISO 178
Coefficient of Friction			
vs. Itself - Dynamic	0.25		ASTM D3702 Modified
vs. Itself - Static	0.16		

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			
23°C	48	J/m	ASTM D256
23°C ²	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.00	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	163	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	99.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	99.0	°C	ISO 75-2/Af
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		

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