

LNP™ LUBRICOMP™ KI001XXJ compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KI001XXJ is a compound based on Acetal containing 2% Silicone. Added features of this grade include: Wear Resistant, Healthcare.
Also known as: LNP* LUBRICOMP* Compound KL-4410 HC
Product reorder name: KI001XXJ

General Information			
Additive	Silicone Lubricant (2%)		
Features	Good Wear Resistance		
	Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.4	%	
Across Flow : 24 hr	2.4	%	
Water Absorption (24 hr, 50% RH)	0.24	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2750	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	55.0	MPa	
Break	52.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	16	%	
Break	46	%	
Flexural Modulus ⁴ (50.0 mm Span)	2280	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	74.7	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.44		
vs. Itself - Static	0.34		
Wear Factor - Washer	22.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	82	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1600	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	106	°C	ASTM D648

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. Type I, 5.0 mm/min
3. Type I, 5.0 mm/min
4. 1.3 mm/min
5. 1.3 mm/min

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