LNP™ LUBRICOMP™ COMPOUND KI001

DESCRIPTION

LNP LUBRICOMP KI001 compound is based on POM (Acetal) resin containing silicone. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, No PFAS intentionally added
Fillers	Unreinforced, Silicone
Polymer Types	Acetal (POM) Copolymer
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20240715

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	44	MPa	ISO 527
Tensile Stress, break, 5 mm/min	20	MPa	ISO 527
Flexural Modulus, 2 mm/min	2000	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	65	MPa	ISO 178
IMPACT [1]			
Izod Impact, notched 80*10*4 +23°C	4.2	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	57	kJ/m²	ISO 180/1U
THERMAL [1]			
CTE, -30°C to 30°C, flow	1.05E-04	1/°C	ISO 11359-2
CTE, -30°C to 30°C, xflow	1.23E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Af
PHYSICAL [1]			
Mold Shrinkage, flow [2]	2.5	%	SABIC method
Wear Factor Washer	66	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.2	-	ASTM D3702 Modified: Manual
Static COF	0.3	-	ASTM D3702 Modified: Manual
Density	1.38	g/cm³	ISO 1183
INJECTION MOLDING [3]			
Drying Time	2 – 3	Hrs	
Drying Temperature	80	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	200 – 220	°C	
Middle - Zone 2 Temperature	190 – 210	°C	
Rear - Zone 1 Temperature	180 – 200	°C	
Mold Temperature	80 – 100	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER