

# LNPTM LUBRICOMPTM COMPOUND KP004A

KL-4540 D REGION EUROPE

#### **DESCRIPTION**

LNP LUBRICOMP KP004A compound is based on Acetal (POM) Homopolymer resin containing 20% PTFE/silicone. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant
Fillers	Unreinforced, PTFE/Silicone
Polymer Types	Acetal (POM) Homopolymer
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**

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL<sup>(1)</sup> MPa Tensile Stress, yield, 5 mm/min 43 ISO 527 Tensile Strain, yield, 5 mm/min 12.9 % ISO 527 2400 Tensile Modulus, 1 mm/min MPa ISO 527 Flexural Stress, yield, 2 mm/min 61 MPa ISO 178 2100 Flexural Modulus, 2 mm/min MPa ISO 178 IMPACT (1) Izod Impact, unnotched 80\*10\*4 +23°C 29 kJ/m² ISO 180/1U Izod Impact, notched 80\*10\*4 +23°C 4 kJ/m² ISO 180/1A THERMAL (1) CTE, 23°C to 60°C, flow 1/°C 1.22E-04 ISO 11359-2 CTE, 23°C to 60°C, xflow 1.15E-04 1/°C ISO 11359-2 HDT/Af, 1.8 MPa Flatw 80\*10\*4 sp=64mm 95 °C ISO 75/Af PHYSICAL (1) Mold Shrinkage, flow (2) 3 % SABIC method 9 10^-10 in^5-min/ft-lb-hr ASTM D3702 Modified: Manual Wear Factor Washer Dynamic COF 0.25 ASTM D3702 Modified: Manual ASTM D3702 Modified: Manual Static COF 0.16 Density 1.49 g/cm<sup>3</sup> ISO 1183 INJECTION MOLDING (3)

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## CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 - 220	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	175 – 190	°C	
Mold Temperature	80 - 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 - 60	rpm	

(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.

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