

LNPTM LUBRICOMPTM COMPOUND KL003E

DESCRIPTION

LNP LUBRICOMP KL003E compound is based on Acetal (POM) Copolymer resin containing 15% PTFE. Added features of this grade include: Internally Lubricated, Wear Resistant, Easy Molding.

GENERAL INFORMATION		
Features	Good Processability, Wear resistant	
Fillers	Unreinforced, PTFE	
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 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, yield, 5 mm/min	45	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	11.1	%	ISO 527
Tensile Modulus, 1 mm/min	2300	MPa	ISO 527
Flexural Strength, 2 mm/min	65	MPa	ISO 178
Flexural Modulus, 2 mm/min	2100	MPa	ISO 178
IMPACT (1)			
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL (1)			
CTE, 23°C to 60°C, flow	1.23E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.25E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	83	°C	ISO 75/Af
PHYSICAL (1)			
Mold Shrinkage, flow ⁽²⁾	2.9	%	SABIC method
Density	1.48	g/cm³	ISO 1183
INJECTION MOLDING (3)			
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	



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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