

LNP™ LUBRICOMP™ Compound KL003E

(POM+PTFE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

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.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	11.1	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Izod impact strength, +23°C, 4mm	25	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	83	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	123	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	125	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	200 - 215	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	175 - 190	°C	-
Zone 2	195 - 205	°C	-
Zone 3	210 - 220	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific