

**Product Texts**

LNP LUBRICOMP KL003LH compound is based on POM (Acetal) resin containing 15% PTFE. Added features of this grade include: Low Extractable, Healthcare, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	2.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2520	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	13	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	32	%	ISO 527
Flexural modulus	2210	MPa	ISO 178
Flexural strength	64	MPa	ISO 178
Izod impact strength, +23°C, 4mm	59	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	2580	MPa	ASTM D 638
Tensile Strength at Yield	52	MPa	ASTM D 638
Tensile Strength at Break	47	MPa	ASTM D 638
Elongation at Yield	12	%	ASTM D 638
Elongation at Break	27	%	ASTM D 638
Flexural Modulus	2210	MPa	ASTM D 790
Izod Impact notched, 1/8 in	41	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	871	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	148	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	130	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	120	E-6/K	ASTM D 696
DTUL @ 66 psi	151	°C	ASTM D 648
DTUL @ 264 psi	87	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1480	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.19	%	ASTM D 570
Density	1490	kg/m <sup>3</sup>	ASTM D 792

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