

Product Texts

LNP LUBRICOMP KFI12 compound is based on Acetal (POM) Copolymer resin containing 10% glass fiber, 2% silicone. Added features of this grade include: Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4780	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	4140	MPa	ISO 178
Flexural strength	91	MPa	ISO 178
Izod impact strength, +23°C	26	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	4910	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	56	MPa	ASTM D 638
Elongation at Yield	2.3	%	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	4070	MPa	ASTM D 790
Izod Impact notched, 1/8 in	54	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	417	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	159	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	162	°C	ISO 75-1/-2

ASTM Data			
Coefficient of Thermal Expansion, MD	83	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	90	E-6/K	ASTM D 696
DTUL @ 66 psi	163	°C	ASTM D 648
DTUL @ 264 psi	161	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.34	%	Sim. to ISO 62
Water Absorption, 24hr	0.25	%	ASTM D 570
Density	1440	kg/m ³	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