

Product Texts

LNP LUBRICOMP KFL23LH compound is based on Acetal (POM) Copolymer resin containing 15% glass fiber, 10% PTFE. Added features of this grade include: Wear Resistant, Low Extractable.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6820	MPa	ISO 527
Stress at break	75	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	5900	MPa	ISO 178
Flexural strength	108	MPa	ISO 178
Izod impact strength, +23°C, 4mm	22	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6720	MPa	ASTM D 638
Tensile Strength at Break	78	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	5740	MPa	ASTM D 790
Izod Impact notched, 1/8 in	50	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	500	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	158	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	163	°C	ISO 75-1/-2
ASTM Data			
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	0.21	%	ASTM D 570
Density	1580	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