

Product Texts

LNP LUBRICOMP KZL16 compound is based on Acetal (POM) Copolymer resin containing 30% milled glass and 5% PTFE. Added features of this grade include: Wear Resistant, Dimensional Control.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5800	MPa	ISO 527
Yield stress	49	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	46	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	6300	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Izod impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6130	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	56	MPa	ASTM D 638
Elongation at Yield	3.6	%	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	5300	MPa	ASTM D 790
Flexural Strength	92	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	208	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	138	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	161	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.29	%	Sim. to ISO 62
Density	1660	kg/m ³	ISO 1183
Water Absorption, 24hr	0.16	%	ASTM D 570
Density	1650	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