

**Product Texts**

LNP LUBRICOMP KCL34A compound is based on Acetal (POM) Homopolymer resin containing 15% PTFE, 20% carbon fiber. Added features of this grade include: Wear Resistant, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15500	MPa	ISO 527
Yield stress	88	MPa	ISO 527
Yield strain	0.7	%	ISO 527
Stress at break	88	MPa	ISO 527
Strain at break	0.7	%	ISO 527
Flexural modulus	15000	MPa	ISO 178
Flexural strength	117	MPa	ISO 178
Izod impact strength, +23°C, 4mm	16	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	17230	MPa	ASTM D 638
Tensile Strength at Yield	87	MPa	ASTM D 638
Tensile Strength at Break	87	MPa	ASTM D 638
Elongation at Yield	0.7	%	ASTM D 638
Elongation at Break	0.7	%	ASTM D 638
Flexural Modulus	13100	MPa	ASTM D 790
Flexural Strength	110	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	267	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	170	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	175	°C	ASTM D 648
DTUL @ 264 psi	171	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1550	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1560	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	<b>210 - 220</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

### Characteristics

#### Processing

Injection Molding

#### Regional Availability

North America, Europe, Asia Pacific

#### Special Characteristics

Increased electrical conductivity