

**Product Texts**

LNP LUBRICOMP CZL36 compound is based on Polystyrene (PS) resin containing 30% milled glass and 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.25	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.35	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3880	MPa	ISO 527
Yield stress	22	MPa	ISO 527
Yield strain	1.6	%	ISO 527
Stress at break	21	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	5110	MPa	ISO 178
Flexural strength	49	MPa	ISO 178
Izod impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2550	MPa	ASTM D 638
Tensile Strength at Yield	24	MPa	ASTM D 638
Tensile Strength at Break	24	MPa	ASTM D 638
Elongation at Yield	1.7	%	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	4890	MPa	ASTM D 790
Flexural Strength	52	MPa	ASTM D 790
Izod Impact notched, 1/8 in	26	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	117	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	83	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 264 psi	83	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1520	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.03	%	ASTM D 570
Density	1520	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	250	°C	-
Mold temperature	40 - 65	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive