

**Product Texts**

LNP LUBRICOMP GFL36L compound is based on Polysulfone (PSU) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Low Extractable, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9330	MPa	ISO 527
Yield stress	87	MPa	ISO 527
Yield strain	1.3	%	ISO 527
Stress at break	87	MPa	ISO 527
Strain at break	1.2	%	ISO 527
Flexural modulus	9000	MPa	ISO 178
Flexural strength	121	MPa	ISO 178
Izod impact strength, +23°C, 4mm	23	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	10340	MPa	ASTM D 638
Tensile Strength at Yield	88	MPa	ASTM D 638
Tensile Strength at Break	88	MPa	ASTM D 638
Elongation at Yield	1.3	%	ASTM D 638
Elongation at Break	1.3	%	ASTM D 638
Flexural Modulus	8960	MPa	ASTM D 790
Flexural Strength	110	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	341	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	181	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	186	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	185	°C	ASTM D 648
DTUL @ 264 psi	180	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1620	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1620	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	360 - 370	°C	-
Mold temperature	150	°C	-
Zone 1	325 - 340	°C	-
Zone 2	340 - 350	°C	-
Zone 3	350 - 360	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific