

**Product Texts**

LNP LUBRICOMP IFL36 compound is based on Nylon 6/12 resin containing 30% glass fiber, 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	0.8	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	10300	MPa	ISO 527
Stress at break	157	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	7920	MPa	ISO 178
Flexural strength	231	MPa	ISO 178
Izod impact strength, +23°C, 4mm	73	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	9960	MPa	ASTM D 638
Tensile Strength at Break	154	MPa	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	8610	MPa	ASTM D 790
Flexural Strength	241	MPa	ASTM D 790
Izod Impact notched, 1/8 in	138	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1170	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	198	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 264 psi	200	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.17	%	Sim. to ISO 62
Density	1450	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1450	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	-
Processing humidity	≤0.2	%	-
Melt temperature	270 - 275	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	255 - 265	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America