

**Product Texts**

LNP LUBRICOMP PFL36 compound is based on Nylon 6 resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>10200</b>	MPa	ISO 527
Yield stress	<b>155</b>	MPa	ISO 527
Yield strain	<b>2.9</b>	%	ISO 527
Stress at break	<b>155</b>	MPa	ISO 527
Strain at break	<b>3.2</b>	%	ISO 527
Flexural modulus	<b>8600</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>75</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	<b>75</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>12</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>10100</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>150</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>150</b>	MPa	ASTM D 638
Elongation at Yield	<b>2.9</b>	%	ASTM D 638
Elongation at Break	<b>3.3</b>	%	ASTM D 638
Flexural Modulus	<b>7500</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>95</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>1000</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>200</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>215</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>210</b>	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>215</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>205</b>	°C	ASTM D 648
Vicat Temperature	<b>210</b>	°C	ASTM D 1525

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.25</b>	%	-
Melt temperature	<b>265 - 275</b>	°C	-
Mold temperature	<b>80 - 95</b>	°C	-
Zone 1	<b>250 - 260</b>	°C	-
Zone 2	<b>265 - 275</b>	°C	-
Zone 3	<b>275 - 290</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America