

**Product Texts**

LNP LUBRICOMP RFL46 compound is based on Nylon 6/6 resin containing 30% glass fiber, 20% 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>10400</b>	MPa	ISO 527
Stress at break	<b>145</b>	MPa	ISO 527
Strain at break	<b>2.5</b>	%	ISO 527
Flexural modulus	<b>8700</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>45</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	<b>8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	<b>50</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>9</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Flexural Modulus	<b>8400</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>80</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>760</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>262</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>253</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>254</b>	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	<b>251</b>	°C	ISO 306
Coeff. of linear therm. expansion, parallel	<b>24</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>90</b>	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>262</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>254</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>3.95</b>	%	Sim. to ISO 62
Density	<b>1540</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1540</b>	kg/m <sup>3</sup>	ASTM D 792

<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>280 - 305</b>	°C	-
Mold temperature	<b>95 - 110</b>	°C	-
Zone 1	<b>265 - 275</b>	°C	-
Zone 2	<b>280 - 295</b>	°C	-
Zone 3	<b>295 - 305</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