

**Product Texts**

LNP LUBRICOMP RFL33 compound is based on Nylon 6/6 resin containing 15% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E45329-101344595](https://www.ulprospector.com/usa/Products/101344595)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	1.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	6200	MPa	ISO 527
Stress at break	122	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	5200	MPa	ISO 178
Flexural strength	178	MPa	ISO 178
Izod impact strength, +23°C, 4mm	35	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	6890	MPa	ASTM D 638
Tensile Strength at Break	119	MPa	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	5510	MPa	ASTM D 790
Flexural Strength	179	MPa	ASTM D 790
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	571	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	243	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	39	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	95	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	261	°C	ASTM D 648
DTUL @ 264 psi	247	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1360	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1370	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	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-

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Back pressure	<b>0.2 - 0.3</b>	MPa	-
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**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific