

**Product Texts**

LNP LUBRICOMP RL004 compound is based on Nylon 6/6 resin containing 20% PTFE. Added features of this grade include: Wear Resistant

UL Yellow Card Link [E45329-101344479](https://www.ulprospector.com/usa/Products/101344479)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	28	cm <sup>3</sup> /10min	ISO 1133
Temperature	275	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2900	MPa	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	9.4	%	ISO 527
Flexural modulus	2500	MPa	ISO 178
Charpy impact strength, +23°C	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	50	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3000	MPa	ASTM D 638
Tensile Strength at Break	71	MPa	ASTM D 638
Elongation at Break	6.7	%	ASTM D 638
Flexural Modulus	2450	MPa	ASTM D 790
Rockwell Hardness	R 110	-	ASTM D 785
Izod Impact notched, 1/8 in	35	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	600	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	201	°C	ISO 75-1/-2
Vicat softening temperature, B	240	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	230	°C	ISO 306
Coeff. of linear therm. expansion, parallel	97	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	90	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	88	E-6/K	ASTM D 696
DTUL @ 66 psi	239	°C	ASTM D 648
DTUL @ 264 psi	70	°C	ASTM D 648
Vicat Temperature	240	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	1	%	Sim. to ISO 62
Density	1250	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	1	%	ASTM D 570
Density	1250	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	275 - 290	°C	-

**LNP™ LUBRICOMP™ Compound RL004**

(PA66+PTFE)

Saudi Basic Industries Corporation (SABIC)

Mold temperature	<b>80 - 95</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