

Product Texts

LNP LUBRICOMP RP004 compound is based on Nylon 6/6 resin containing 20% PTFE/silicone. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E121562-101344545](https://www.ulprospector.com/usa/Products/121562-101344545)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2720	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	26	%	ISO 527
Stress at break	63	MPa	ISO 527
Strain at break	26.6	%	ISO 527
Flexural modulus	2390	MPa	ISO 178
Izod impact strength, +23°C, 4mm	88	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2610	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	61	MPa	ASTM D 638
Elongation at Yield	22	%	ASTM D 638
Elongation at Break	22.6	%	ASTM D 638
Flexural Modulus	2260	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	348	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	63	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	200	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	84.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	94	E-6/K	ASTM D 696
DTUL @ 66 psi	237	°C	ASTM D 648
DTUL @ 264 psi	64	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183
Water Absorption, 24hr	0.84	%	ASTM D 570
Density	1240	kg/m ³	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	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-

LNP™ LUBRICOMP™ Compound RP004 - Americas

(PA66+PTFE)

Saudi Basic Industries Corporation (SABIC)

Back pressure

0.2 - 0.3

MPa

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Characteristics**Processing**

Injection Molding

Regional Availability

North America