

**Product Texts**

LNP LUBRILOY R2000A compound is based on Nylon 6/6 resin containing proprietary lubricant. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E45329-101283864](https://www.ulprospector.com/PA66/101283864)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	2.6	%	ISO 294-4, 2577
Molding shrinkage, normal	2.6	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	2.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	43	MPa	ISO 527
Yield strain	8.8	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	29.6	%	ISO 527
Flexural modulus	2200	MPa	ISO 178
Flexural strength	69	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	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	1990	MPa	ASTM D 638
Tensile Strength at Yield	47	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	38.6	%	ASTM D 638
Flexural Modulus	1930	MPa	ASTM D 790
Flexural Strength	67	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	67	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
<b>ASTM Data</b>			
DTUL @ 66 psi	66	°C	ASTM D 648
DTUL @ 264 psi	62	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.43	%	Sim. to ISO 62
Density	1020	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1020	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	270 - 280	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°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