

Product Texts

LNP LUBRILOY RX05497 compound is based on Nylon 6/6 resin containing proprietary lubricant. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E207780-103093666](https://www.ulprospector.com/PA66/207780-103093666)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.4	%	ISO 294-4, 2577
Molding shrinkage, normal	2.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	2.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2730	MPa	ISO 527
Yield stress	69	MPa	ISO 527
Yield strain	17.2	%	ISO 527
Stress at break	57	MPa	ISO 527
Strain at break	31.4	%	ISO 527
Flexural modulus	2430	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3040	MPa	ASTM D 638
Tensile Strength at Yield	82	MPa	ASTM D 638
Tensile Strength at Break	67	MPa	ASTM D 638
Elongation at Yield	5.2	%	ASTM D 638
Elongation at Break	24.4	%	ASTM D 638
Flexural Modulus	2790	MPa	ASTM D 790
Flexural Strength	105	MPa	ASTM D 790
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	58	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 264 psi	58	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.18	%	Sim. to ISO 62
Density	1120	kg/m ³	ISO 1183
Water Absorption, 24hr	0.88	%	ASTM D 570
Density	1120	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	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-

LNP™ LUBRILOY™ Compound RX05497

PA66

Saudi Basic Industries Corporation (SABIC)

Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific