

# LNP™ LUBRILLOY™ RX05497 compound

Polyamide 66

SABIC Innovative Plastics

## Message:

LNP LUBRILLOY\* RX05497 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Also known as: LNP\* LUBRILLOY\* Compound RW

Product reorder name: RX05497

General Information			
Additive	Lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	2.3 - 2.5	%	ASTM D955
Transverse flow: 24 hours	2.3 - 2.5	%	ASTM D955
Vertical flow direction: 24 hours	2.3 - 2.5	%	ISO 294-4
Flow direction: 24 hours	2.3 - 2.5	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.88	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- <sup>1</sup>	3050	MPa	ASTM D638
--	2730	MPa	ISO 527-2/1
Tensile Strength			
Yield	82.5	MPa	ASTM D638
Yield	69.0	MPa	ISO 527-2
Fracture	67.0	MPa	ASTM D638
Fracture	57.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.3	%	ASTM D638
Yield	17	%	ISO 527-2
Fracture	24	%	ASTM D638
Fracture	31	%	ISO 527-2
Flexural Modulus			
--	2800	MPa	ASTM D790
--	2430	MPa	ISO 178
Flexural Strength			

--	105	MPa	ASTM D790
--	90.7	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.30		ASTM D3702 Modified
With Self-Static	0.16		ASTM D3702 Modified
Wear Factor - Washer	10.0	10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr	ASTM D3702 Modified
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C <sup>2</sup>	6.9	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C <sup>3</sup>	140	kJ/m <sup>2</sup>	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	60.1	J	ASTM D3763
--	76.1	J	ISO 6603-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	58.9	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span <sup>4</sup>	58.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	9.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	9.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
<b>NOTE</b>			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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Recommended distributors for this material

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