

## SABIC Innovative Plastics LNP LUBRILOY RX05497 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRILOY\* RX05497 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILOY-RX05497-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RX05497-PA-66.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ASTM D792
	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.880 %	0.880 %	50% RH, 24 hrs; ASTM D570
	1.18 %	1.18 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.023 - 0.025 cm/cm	0.023 - 0.025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0231 - 0.0252 cm/cm	0.0231 - 0.0252 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.023 - 0.025 cm/cm	0.023 - 0.025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0231 - 0.0252 cm/cm	0.0231 - 0.0252 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	ISO 527
	67.0 MPa	9720 psi	ASTM D638
Tensile Strength, Yield	69.0 MPa	10000 psi	ISO 527
	82.0 MPa	11900 psi	ASTM D638
Elongation at Break	24.4 %	24.4 %	ASTM D638
	31.4 %	31.4 %	ISO 527
Elongation at Yield	5.2 %	5.2 %	ASTM D638
	17.2 %	17.2 %	ISO 527

Tensile Modulus Mechanical Properties	2.73 GPa Metric	396 ksi English	1 mm/min; ISO 527 Comments
	3.04 GPa	441 ksi	50 mm/min; ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ISO 178
	105 MPa	15200 psi	ASTM D790
Flexural Modulus	2.43 GPa	352 ksi	ISO 178
	2.79 GPa	405 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m <sup>2</sup>	65.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	60.0 J	44.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	76.0 J	56.1 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.30	0.30	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	20.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	10.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	98.6 Åµm/m-Å°C	54.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	98.6 Åµm/m-Å°C	54.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	91.2 Åµm/m-Å°C	50.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	91.3 Åµm/m-Å°C	50.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Å°C	136 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	58.0 Å°C	136 Å°F	

Thermal Properties

Metric  
@ Thickness 3.20 mm

English  
@ Thickness 0.126 in

unannealed; ASTM D648  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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