

## SABIC Innovative Plastics LNP LUBRILOY R2000A PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRILOY\* R2000A is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILOY-R2000A-PA-66-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-R2000A-PA-66-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	ASTM D792
	1.02 g/cc	0.0368 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
	0.430 %	0.430 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0257 cm/cm	0.0257 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.026 cm/cm	0.026 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.026 cm/cm	0.026 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.026 cm/cm	0.026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	ASTM D638
	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527
	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	29.6 %	29.6 %	ISO 527
	38.6 %	38.6 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
	8.8 %	8.8 %	ISO 527

Tensile Modulus Mechanical Properties	1.99 GPa Metric	289 ksi English	50 mm/min; ASTM D638 Comments
	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
	69.0 MPa	10000 psi	ISO 178
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 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	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.31	0.31	ASTM D3702 Modified
Coefficient of Friction, Static	0.27	0.27	ASTM D3702 Modified
K (wear) Factor	24.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	12.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	66.0 Â°C @Thickness 3.20 mm	151 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.0 Â°C	153 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	62.0 Â°C @Thickness 3.20 mm	144 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

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