

SABIC Innovative Plastics LNP LUBRILOY RX99650 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRILOY* RX99650 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-RX99650-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption	0.730 %	0.730 %	50% RH, 24 hrs; ASTM D570
	1.12 %	1.12 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.024 - 0.026 cm/cm	0.024 - 0.026 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0243 - 0.026 cm/cm	0.0243 - 0.026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.024 - 0.026 cm/cm	0.024 - 0.026 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0243 - 0.026 cm/cm	0.0243 - 0.026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	31 %	31 %	ASTM D638
	64 %	64 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ASTM D638
	16 %	16 %	ISO 527

Tensile Modulus Mechanical Properties	2.16 GPa Metric	313 ksi English	1 mm/min; ISO 527 Comments
	2.22 GPa	322 ksi	50 mm/min; ASTM D638
Flexural Strength	74.0 MPa	10700 psi	ISO 178
	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.08 GPa	302 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	137 kJ/m ²	65.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	76.0 J	56.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	65.0 J	47.9 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.31	0.31	ASTM D3702 Modified
Coefficient of Friction, Static	0.18	0.18	ASTM D3702 Modified
K (wear) Factor	16.1 x 10 ⁻⁸ mm ³ /N-M	8.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	121 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	67.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	121 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	67.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	113 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	188 $\text{Å}^\circ\text{C}$	370 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	206 $\text{Å}^\circ\text{C}$	403 $\text{Å}^\circ\text{F}$	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	67.0 Â°C	153 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	63.0 Â°C @Thickness 3.20 mm	145 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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