

SABIC Innovative Plastics LNP LUBRILOY R2000 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRILOY* R2000 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-R2000-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.021 - 0.031 cm/cm	0.021 - 0.031 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	55.0 MPa	7980 psi	ASTM D638
Tensile Strength, Yield	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	27 %	27 %	ASTM D638
	32.3 %	32.3 %	ISO 527
Elongation at Yield	14 %	14 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	50 mm/min; ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ISO 178
	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.31 GPa	335 ksi	ASTM D790
Izod Impact, Notched	0.620 J/cm	1.16 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.24 J/cm	32.30 ft-lb/in	ASTM D4812

Mechanical Properties (ISO)	Metric ¹ /m ²	English ^{1b} /in ²	Comments ¹⁰ 180/1A
Izod Impact, Unnotched (ISO)	141 kJ/m ²	67.1 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.27	0.27	ASTM D3702 Modified
K (wear) Factor	101 x 10 ⁻⁸ mm ³ /N-M	50.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	103 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	57.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 1.8 MPa (264 psi)	85.0 $\text{Å}^\circ\text{C}$	185 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	77.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	171 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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