

SABIC Innovative Plastics LNP LUBRICOMP RN001S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RN001S is a compound based on Nylon 66 resin containing 2% MOS2. Added features of this material include: Wear Resistant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RN001S-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0101 cm/cm	0.0101 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0103 cm/cm	0.0103 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	ISO 527
	84.0 MPa	12200 psi	ASTM D638
Tensile Strength, Yield	69.0 MPa	10000 psi	ISO 527
	84.0 MPa	12200 psi	ASTM D638
Elongation at Break	3.8 %	3.8 %	ASTM D638
	42.2 %	42.2 %	ISO 527
Elongation at Yield	2.0 %	2.0 %	ISO 527
	2.9 %	2.9 %	ASTM D638
Tensile Modulus	3.91 GPa	567 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	50 mm/min; ASTM D638
Flexural Strength	107 MPa	15500 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹ cm	English ¹ lb/in	Comments ²
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.75	0.75	ASTM D3702 Modified
Coefficient of Friction, Static	0.55	0.55	ASTM D3702 Modified
K (wear) Factor	207 x 10 ⁻⁸ mm ³ /N-M	103 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 Â°C	433 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	231 Â°C @Thickness 3.20 mm	448 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C @Thickness 3.20 mm	169 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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