

SABIC Innovative Plastics LNP LUBRICOMP RX01514 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RX01514 is a compound based on Nylon 66 resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RX01514-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Moisture Absorption	1.10 %	1.10 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	ASTM D638
	78.0 MPa	11300 psi	ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
	84.0 MPa	12200 psi	ASTM D638
Elongation at Break	19.1 %	19.1 %	ISO 527
	21.1 %	21.1 %	ASTM D638
Elongation at Yield	3.9 %	3.9 %	ISO 527
	4.2 %	4.2 %	ASTM D638
Tensile Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527

Mechanical Properties	3.44 GPa Metric	499 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	96.0 MPa	13900 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.95 J/cm	35.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	251 kJ/mÂ²	119 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	29.0 J	21.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	48.0 J	35.4 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.81	0.81	ASTM D3702 Modified
Coefficient of Friction, Static	0.62	0.62	ASTM D3702 Modified
K (wear) Factor	135 x 10 ⁻⁸ mmÂ³/N-M	67.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.8 Âµm/m-Â°C	46.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	86.4 Âµm/m-Â°C	48.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	87.0 Âµm/m-Â°C	48.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	183 Â°C	361 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	62.0 Â°C	144 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	66.0 °C	150 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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