

SABIC Innovative Plastics LNP LUBRICOMP RL002 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRICOMP* RL002 is a compound based on Nylon 66 resin containing 10% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RL002-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption	0.940 %	0.940 %	50% RH, 24 hrs; ASTM D570
	1.18 %	1.18 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0223 cm/cm	0.0223 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0259 cm/cm	0.0259 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	ISO 527
	74.0 MPa	10700 psi	ASTM D638
Tensile Strength, Yield	73.0 MPa	10600 psi	ISO 527
	75.0 MPa	10900 psi	ASTM D638
Elongation at Break	14.3 %	14.3 %	ASTM D638
	17.6 %	17.6 %	ISO 527
Elongation at Yield	13.5 %	13.5 %	ASTM D638
	16.7 %	16.7 %	ISO 527
Tensile Modulus	3.08 GPa	447 ksi	50 mm/min; ASTM D638

Mechanical Properties	3.17 GPa Metric	460 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	89.0 MPa	12900 psi	ISO 178
	112 MPa	16200 psi	ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	ISO 178
	3.04 GPa	441 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.97 J/cm	16.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/m ²	28.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.27	0.27	ASTM D3702 Modified
Coefficient of Friction, Static	0.23	0.23	ASTM D3702 Modified
K (wear) Factor	98.7 x 10 ⁻⁸ mm ³ /N-M	49.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.5 Åµm/m-Å°C	45.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	82.6 Åµm/m-Å°C	45.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	85.7 Åµm/m-Å°C	47.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	85.8 Åµm/m-Å°C	47.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Å°C	165 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	76.0 Å°C	169 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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