

SABIC Innovative Plastics LNP LUBRICOMP RX99518 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RX99518 is a compound based on PA66 containing Proprietary Fillers. 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-RX99518-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.760 %	0.760 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	5 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	71.0 MPa	10300 psi	5 mm/min; ISO 527
Elongation at Break	9.3 %	9.3 %	5 mm/min; ISO 527
	9.4 %	9.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.2 %	9.2 %	Type I, 5 mm/min; ASTM D638
	9.2 %	9.2 %	5 mm/min; ISO 527
Tensile Modulus	3.14 GPa	455 ksi	5 mm/min; ASTM D638
	3.18 GPa	461 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	ISO 178
Flexural Modulus	2.82 GPa	409 ksi	2 mm/min; ISO 178
	2.88 GPa	418 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties <i>Izod Impact, Notched</i>	Metric 0.500 J/cm	English 0.147 ft-lb/in	Comments ASTM D256
Izod Impact, Unnotched	9.67 J/cm	18.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	58.0 kJ/m ²	27.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.37	0.37	ASTM D3702 Modified
Coefficient of Friction, Static	0.35	0.35	ASTM D3702 Modified
K (wear) Factor	4.03 x 10 ⁻⁸ mm ³ /N-M	2.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.50 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	4.72 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	9.20 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.11 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	181 Â°C	358 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Â°C	163 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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