

SABIC Innovative Plastics LNP LUBRICOMP RI001 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RI001 is a compound based on Nylon 66 resin containing 2% Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RI001-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Moisture Absorption	1.20 %	1.20 %	50% RH, 24 hrs; ASTM D570
	1.50 %	1.50 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	68.0 MPa	9860 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
	4.4 %	4.4 %	5 mm/min; ISO 527
Elongation at Yield	3.7 %	3.7 %	5 mm/min; ISO 527
Tensile Modulus	2.93 GPa	425 ksi	1 mm/min; ISO 527
	3.20 GPa	464 ksi	50 mm/min; ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ISO 178
Flexural Modulus	2.69 GPa	390 ksi	2 mm/min; ISO 178
	2.91 GPa	422 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.3 J/cm	30.5 ft-lb/in	ASTM D4812

Izod Impact, Notched (ISO) Mechanical Properties	5.00 kJ/m ² Metric	2.38 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	214 kJ/m ²	102 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	209 x 10 ⁻⁸ mm ³ /N-M	104 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	44.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	164 Â°C	327 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	241 Â°C @Thickness 3.20 mm	466 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	59.0 Â°C	138 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	66.0 Â°C @Thickness 3.20 mm	151 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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