

SABIC Innovative Plastics LNP LUBRICOMP IN001 PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* LUBRICOMP* IN001 is a compound based on Nylon 6/12 resin containing 2% Moly. 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-IN001-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.084 g/cc	0.03916 lb/in ³	ASTM D792
Moisture Absorption	0.230 %	0.230 %	50% RH, 24 hrs; ASTM D570
	0.310 %	0.310 %	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	0.010 - 0.030 cm/cm	0.010 - 0.030 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
	62.0 MPa	8990 psi	5 mm/min; ISO 527
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	62.0 MPa	8990 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	4.1 %	4.1 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	4.1 %	4.1 %	5 mm/min; ISO 527
Tensile Modulus	2.75 GPa	399 ksi	1 mm/min; ISO 527
	2.95 GPa	428 ksi	5 mm/min; ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.49 GPa Metric	361 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.71 J/cm	5.08 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.0 Âµm/m-Â°C	49.4 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	96.0 Âµm/m-Â°C	53.3 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	152 Â°C	306 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	174 Â°C @Thickness 3.20 mm	345 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	69.0 Â°C	156 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	69.0 Â°C @Thickness 3.20 mm	156 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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