

SABIC Innovative Plastics LNP LUBRICOMP IFL36 PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP LUBRICOMP* IFL36 is a compound based on Nylon 6/12 resin containing 30% Glass Fiber, 15% 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-IFL36-PA612.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0024 cm/cm	0.0024 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0084 cm/cm	0.0084 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	ASTM D638
	157 MPa	22800 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
	3.2 %	3.2 %	ASTM D638
Tensile Modulus	9.96 GPa	1440 ksi	50 mm/min; ASTM D638
	10.31 GPa	1495 ksi	1 mm/min; ISO 527
Flexural Strength	231 MPa	33500 psi	ISO 178
	241 MPa	35000 psi	ASTM D790

Flexural Modulus Mechanical Properties	7.92 GPa Metric	1150 ksi English	ISO 178 Comments
	8.61 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	1.38 J/cm	2.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.69 J/cm	21.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	73.0 kJ/m ²	34.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J	12.5 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	0.55	0.55	ASTM D3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Åµm/m-Å°C	14.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	26.3 Åµm/m-Å°C	14.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	75.6 Åµm/m-Å°C	42.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	76.9 Åµm/m-Å°C	42.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	198 Å°C	388 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	200 Å°C @Thickness 3.20 mm	392 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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