

SABIC Innovative Plastics LNP LUBRICOMP IBI16 PA 6/12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP LUBRICOMP* IBI16 is a compound based on Nylon 6/12 resin containing 30% Glass Bead, 2% Silicone. 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-IBI16-PA-612.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.240 %	0.240 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.017 cm/cm	0.017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0172 cm/cm	0.0172 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527
	54.0 MPa	7830 psi	ASTM D638
Elongation at Break	2.6 %	2.6 %	ISO 527
	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.30 GPa	479 ksi	50 mm/min; ASTM D638
	3.30 GPa	479 ksi	1 mm/min; ISO 527
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
	84.0 MPa	12200 psi	ISO 178

Flexural Modulus Mechanical Properties	2.75 GPa Metric	399 ksi English	ASTM D790 Comments
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.50 J/cm	4.68 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)	16.0 kJ/m ²	7.61 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	169 Â°C @Thickness 3.20 mm	336 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C	174 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	76.0 Â°C @Thickness 3.20 mm	169 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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