

LNP™ LUBRICOMP™ IBI16 compound

Polyamide 612
SABIC Innovative Plastics

Message:

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.
Also known as: LNP* LUBRICOMP* Compound IBL-4416
Product reorder name: IBI16

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Additive	Silicone Lubricant (2%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.7	%	
Across Flow : 24 hr	1.7	%	
Water Absorption			
24 hr, 50% RH	0.25	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3310	MPa	ASTM D638
--	3300	MPa	ISO 527-2/1
Tensile Strength			
Break	54.7	MPa	ASTM D638
Break	47.9	MPa	ISO 527-2
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	2.6	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength			
--	83.9	MPa	ASTM D790
--	84.6	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	21	J/m	ASTM D256
23°C ²	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	250	J/m	ASTM D4812
23°C ³	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.80	J	ASTM D3763
--	0.970	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	169	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	76.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	79.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	254 to 266	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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