



LNP™ LUBRICOMP™ Compound IBI16

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound IBL-4416

Product reorder name: IBI16

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.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	550	kgf/cm ²	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	33700	kgf/cm ²	ASTM D 638
Flexural Stress	850	kgf/cm ²	ASTM D 790
Flexural Modulus	28100	kgf/cm ²	ASTM D 790
Tensile Stress, break	47	MPa	ISO 527
Tensile Strain, break	2.6	%	ISO 527
Tensile Modulus, 1 mm/min	3300	MPa	ISO 527
Flexural Stress	84	MPa	ISO 178
Flexural Modulus	3000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	25	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	38	cm-kgf	ASTM D 3763
Multiaxial Impact	9	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	169	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	76	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	79	°C	ISO 75/Af
PHYSICAL			
Density	1.3	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.72	%	ISO 294
Density	1.3	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.34	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	270 - 275	°C
Front - Zone 3 Temperature	270 - 280	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	255 - 265	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm