LNP™ LUBRICOMP™ COMPOUND IBI16

IBL-4416

DESCRIPTION

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 PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	54	MPa	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	3300	MPa	ASTM D 638
Flexural Stress	83	MPa	ASTM D 790
Flexural Modulus	2750	MPa	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	250	J/m	ASTM D 4812
Izod Impact, notched, 23°C	21	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	3	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	16	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	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/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.72	%	ISO 294
Density	1.3	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.34	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	270 – 275	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

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