LNP™ LUBRICOMP™ IBP34 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP LUBRICOMP IBP34 is a compound based on Nylon 6/12 containing 20% Glass Bead, 15% PTFE/Silicone. Added features include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound IBL-4534
Product reorder name: IBP34

General Information			
UL YellowCard	E121562-101345274		
Filler / Reinforcement	Glass Bead,20% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.22	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.26	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2740	MPa	ASTM D638
--	2680	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	45.0	MPa	ASTM D638
Break	44.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [3]	3.6	%	ASTM D638
Yield	3.5	%	ISO 527-2/5
Break [4]	3.9	%	ASTM D638
Break	3.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [5]	2610	MPa	ASTM D790
-- [6]	2650	MPa	ISO 178
Flexural Stress			
--	73.0	MPa	ISO 178

Break, 50.0 mm Span [7]	76.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.56		
vs. Itself - Static	0.59		
Wear Factor			ASTM D3702 Modified
Ring	0.600	10^-10 in^5-min/ft-lb-hr	
Washer	13.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	28	J/m	ASTM D256
23°C [8]	2.1	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	330	J/m	ASTM D4812
23°C [9]	19	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.20	J	ASTM D3763
--	1.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	170	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	159	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	70.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.7E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		

5.	1.3 mm/min
6.	2.0 mm/min
7.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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