LNP™ LUBRICOMP™ RBL36XXJ compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RBL36XXJ is a compound based on Nylon 66 containing 30% Glass Bead, 15% PTFE. Added features of this grade include: Low Extractable, Healthcare, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RBL-4036 HC LE
Product reorder name: RBL36XXJ

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance Low Extractables Lubricated		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.41	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.58	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	3990	MPa	ASTM D638
--	3930	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	64.0	MPa	ASTM D638
Break	64.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [3]	8.5	%	ASTM D638
Break [4]	10	%	ASTM D638
Break	8.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [5]	3740	MPa	ASTM D790
-- [6]	3570	MPa	ISO 178
Flexural Stress	107	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.47		
vs. Itself - Static	0.44		
Wear Factor			ASTM D3702 Modified
Ring	8.00	10^-10 in^5-min/ft-lb-hr	
Washer	41.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	51	J/m	ASTM D256
23°C [7]	5.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C [8]	27	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.60	J	ASTM D3763
--	1.34	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	236	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [9]	203	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	83.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	73.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.9E-5	cm/cm/°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 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.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

Recommended distributors for this material

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