LNP™ LUBRICOMP™ WBL36L compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WBL36L is a compound based on PBT resin containing 30% Glass Bead, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractible.
Also known as: LNP* LUBRICOMP* Compound WBL-4036 LE
Product reorder name: WBL36L

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance Low Extractables Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.69	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.0 to 3.0	%	ASTM D955
Across Flow : 24 hr	1.7 to 2.0	%	ASTM D955
Across Flow : 24 hr	1.9	%	ISO 294-4
Flow : 24 hr	2.4	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	4140	MPa	ASTM D638
--	4020	MPa	ISO 527-2/1
Tensile Strength			
Yield	37.2	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2
Break	36.5	MPa	ASTM D638
Break	36.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.2	%	ASTM D638
Yield	2.4	%	ISO 527-2
Break	3.0	%	ASTM D638
Break	3.4	%	ISO 527-2
Flexural Modulus			
--	4140	MPa	ASTM D790
--	3900	MPa	ISO 178

Flexural Strength			
--	68.9	MPa	ASTM D790
--	75.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.66		
vs. Itself - Static	0.63		
Wear Factor - Washer	25.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C [2]	3.2	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	260	J/m	ASTM D4812
23°C [3]	19	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.50	J	ASTM D3763
--	1.20	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	189	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	184	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	94.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.1E-5	cm/cm/°C	ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°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
5.	80*10*4 mm

Recommended distributors for this material

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