LNP™ LUBRICOMP™ DBL32 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DBL32 is a compound based on Polycarbonate resin containing 10% Glass Beads and 15% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound DBL-4032
Product reorder name: DBL32

General Information	
Filler / Reinforcement	Glass Bead,10% Filler by Weight
Additive	PTFE Lubricant (15%)
Features	Good Wear Resistance Lubricated
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.90 to 1.1	%	ASTM D955
Across Flow : 24 hr	0.96	%	ISO 294-4
Flow : 24 hr	0.80	%	ISO 294-4

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [1]	2070	MPa	ASTM D638
--	2580	MPa	ISO 527-2/1
Tensile Strength			
Yield	42.7	MPa	ASTM D638
Yield [2]	42.0	MPa	ASTM D638
Yield	43.0	MPa	ISO 527-2, ISO 527-2/5
Break	38.6	MPa	ASTM D638
Break [3]	38.0	MPa	ASTM D638
Break	38.0	MPa	ISO 527-2, ISO 527-2/5
Tensile Elongation			
Yield	5.4	%	ASTM D638
Yield [4]	5.4	%	ASTM D638
Yield	5.1	%	ISO 527-2, ISO 527-2/5
Break	22	%	ASTM D638
Break [5]	22	%	ASTM D638
Break	18	%	ISO 527-2, ISO 527-2/5

Flexural Modulus			
50.0 mm Span [6]	2750	MPa	ASTM D790
--	2760	MPa	ASTM D790
--	2400	MPa	ISO 178
-- [7]	2400	MPa	ISO 178
Flexural Stress	69.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.42		
vs. Itself - Static	0.48		
Wear Factor - Washer	139	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	190	J/m	ASTM D256
23°C [8]	14	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1500	J/m	ASTM D4812
23°C [9]	110	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	31.5	J	ASTM D3763
--	25.8	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	143	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	139	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	135	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	5.4E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	5.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	6.0E-5	cm/cm/°C	ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°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.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

Recommended distributors for this material

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