LNP™ LUBRICOMP™ DFL36P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL36P is a compound based on Polycarbonate containing 30% Glass Fiber 15% PTFE. Added features of this material include: Exceptional Processing. Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound DFL-4036 EP
Product reorder name: DFL36P

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Processability Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.56	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.11	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	9770	MPa	ASTM D638
--	9520	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	113	MPa	ASTM D638
Break	112	MPa	ISO 527-2/5
Tensile Elongation			
Yield [3]	2.2	%	ASTM D638
Break [4]	2.8	%	ASTM D638
Break	2.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [5]	8920	MPa	ASTM D790
-- [6]	8840	MPa	ISO 178
Flexural Stress			
--	172	MPa	ISO 178

Break, 50.0 mm Span [7]	176	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.48		
vs. Itself - Static	0.62		
Wear Factor			ASTM D3702 Modified
Ring	14.6	10^-10 in^5-min/ft-lb-hr	
Washer	96.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C [8]	13	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	690	J/m	ASTM D4812
23°C [9]	42	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	17.3	J	ASTM D3763
--	5.10	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	138	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	133	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	133	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.5E-5	cm/cm/°C	
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.	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

Recommended distributors for this material

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