

LNP™ LUBRICOMP™ DFL38 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL38 is a compound based on Polycarbonate resin containing 40% Glass Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound DFL-4038
Product reorder name: DFL38

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.70	g/cm ³	
--	1.69	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11800	MPa	ASTM D638
--	12900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	103	MPa	ASTM D638
Yield	127	MPa	ISO 527-2/5
Break ³	103	MPa	ASTM D638
Break	127	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.9	%	ASTM D638
Yield	1.9	%	ISO 527-2/5
Break ⁵	1.9	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	12100	MPa	ASTM D790
-- ⁷	11600	MPa	ISO 178
Flexural Stress			
--	192	MPa	ISO 178
Yield, 50.0 mm Span ⁸	196	MPa	ASTM D790
Break, 50.0 mm Span ⁹	196	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.49		
vs. Itself - Static	0.51		
Wear Factor - Washer	23.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	140	J/m	ASTM D256
23°C ¹⁰	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	650	J/m	ASTM D4812
23°C ¹¹	42	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	17.3	J	ASTM D3763
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 ¹²	145	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	138	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.9E-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.	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.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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