

LNP™ LUBRICOMP™ DFL36G compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL36G is a compound based on Polycarbonate resin containing 30% Mixed Glass, 15% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound DFL-4036 MG

Product reorder name: DFL36G

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.55	g/cm ³	ASTM D792
--	1.54	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	0.43	%	ISO 294-4
Flow : 24 hr	0.24	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7280	MPa	ISO 527-2/1
Tensile Strength			
Yield	91.7	MPa	ASTM D638
Yield	90.0	MPa	ISO 527-2
Break	86.9	MPa	ASTM D638
Break	90.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638, ISO 527-2
Break	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2
Flexural Modulus			
--	6890	MPa	ASTM D790
--	7000	MPa	ISO 178

Flexural Strength			
--	138	MPa	ASTM D790
--	3.00	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.49		
vs. Itself - Static	0.42		
Wear Factor - Washer	41.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	570	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	130	J/m	ASTM D4812
23°C ³	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	18.5	J	ASTM D3763
--	5.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	144	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	139	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	140	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	5.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	2.8E-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.	80*10*4		
3.	80*10*4		

4.	80*10*4 mm
5.	80*10*4 mm

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Recommended distributors for this material

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