

LNP™ LUBRICOMP™ DFL32 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL32 is a compound based on Polycarbonate resin containing 10% Glass Fiber and 15% PTFE. Added features of this material include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound DFL-4032
Product reorder name: DFL32

General Information			
Filler / Reinforcement	Glass Fiber,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/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.67	%	ISO 294-4
Flow : 24 hr	0.23	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4350	MPa	ASTM D638
--	4290	MPa	ISO 527-2/1
Tensile Strength			
Break	73.4	MPa	ASTM D638
Break	71.0	MPa	ISO 527-2
Tensile Elongation			
Break	3.1	%	ASTM D638
Break	2.8	%	ISO 527-2
Flexural Modulus			
--	4350	MPa	ASTM D790
--	4170	MPa	ISO 178
Flexural Strength			
--	124	MPa	ASTM D790

--	114	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	91	J/m	ASTM D256
23°C ²	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	530	J/m	ASTM D4812
23°C ³	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.6	J	ASTM D3763
--	4.29	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	140	°C	ISO 75-2/Af
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		

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