

LNP™ LUBRICOMP™ DFL36 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DFL36 is a compound based on Polycarbonate resin containing 30% Glass Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

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

Product reorder name: DFL36

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	1.54	g/cm ³	ASTM D792
Molding Shrinkage - Across Flow (24 hr)	0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9580	MPa	ASTM D638
--	9080	MPa	ISO 527-2/1
Tensile Strength			
Yield	123	MPa	ASTM D638
Yield	118	MPa	ISO 527-2
Break	123	MPa	ASTM D638
Break	118	MPa	ISO 527-2
Tensile Elongation			
Yield	2.6	%	ASTM D638, ISO 527-2
Break	2.8	%	ASTM D638
Break	2.7	%	ISO 527-2
Flexural Modulus			
--	8620	MPa	ASTM D790
--	8340	MPa	ISO 178
Flexural Strength			
--	186	MPa	ASTM D790
--	185	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.41		

Wear Factor - Washer	22.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	200	J/m	ASTM D256
23°C ²	19	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	920	J/m	ASTM D4812
23°C ³	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	144	°C	ASTM D648
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		

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