

LNP™ LUBRICOMP™ PFL36 compound

Polyamide 6
SABIC Innovative Plastics

Message:

LNP LUBRICOMP PFL36 is a compound based on Nylon 6 resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

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

Product reorder name: PFL36

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8270	MPa	ASTM D638
--	7880	MPa	ISO 527-2/1
Tensile Strength			
Yield	110	MPa	ASTM D638
Yield	113	MPa	ISO 527-2
Break	110	MPa	ASTM D638
Break	113	MPa	ISO 527-2
Tensile Elongation			
Yield	5.8	%	ASTM D638
Yield	4.1	%	ISO 527-2
Break	6.7	%	ASTM D638
Break	4.5	%	ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	7000	MPa	ISO 178
Flexural Stress	172	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ²	17	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ³	79	kJ/m ²	ISO 180/1U

Instrumented Dart Impact (23°C, Energy at Peak Load)	19.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	216	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	216	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	201	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	202	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	277 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.344 to 0.689	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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