

LNP™ LUBRICOMP™ PFL36 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP LUBRICOMP PFL36 is a compound based on Nylon 6 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

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

Product reorder name: PFL36

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
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
Fracture	110	MPa	ASTM D638
Fracture	113	MPa	ISO 527-2
Tensile Elongation			
Yield	5.8	%	ASTM D638
Yield	4.1	%	ISO 527-2
Fracture	6.7	%	ASTM D638
Fracture	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, 3.20mm	216	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	216	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	201	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm 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 - 0.25	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	266 - 277	°C	
Front Temperature	277 - 288	°C	
Processing (Melt) Temp	266 - 277	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	30 - 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

