

LNP™ LUBRICOMP™ IFL36L compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP LUBRICOMP IFL36L is a compound based on Nylon 6/12 containing 30% Glass Fiber, 15% PTFE. Added features of this grade include: Low Extractable, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound IFL-4036 LE

Product reorder name: IFL36L

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Extractables		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.44	g/cm ³	ASTM D792
--	1.43	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9400	MPa	ASTM D638
--	8700	MPa	ISO 527-2/1
Tensile Strength			
Break ²	127	MPa	ASTM D638
Break	124	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.7	%	ASTM D638
Break	2.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	7910	MPa	ASTM D790
-- ⁵	7420	MPa	ISO 178
Flexural Stress			

--	189	MPa	ISO 178
Yield, 50.0 mm Span ⁶	193	MPa	ASTM D790
Break, 50.0 mm Span ⁷	192	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.61		
vs. Itself - Static	0.59		
Wear Factor			ASTM D3702 Modified
Ring	-0.500	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	3.50	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	100	J/m	ASTM D256
23°C ⁸	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	850	J/m	ASTM D4812
23°C ⁹	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	8.40	J	ASTM D3763
--	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	211	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	197	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	195	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	254 to 266	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		

6.	1.3 mm/min
7.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	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

