

LNP™ LUBRICOMP™ SFP36 compound

Polyamide 12

SABIC Innovative Plastics

Message:

LNP LUBRICOMP SFP36 is a compound based on Nylon 12 resin containing 30% Glass Fiber 15% PTFE/Silicone. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound SFL-4536

Product reorder name: SFP36

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.39	g/cm ³	ASTM D792
--	1.38	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9060	MPa	ASTM D638
--	9070	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	125	MPa	ASTM D638
Yield	129	MPa	ISO 527-2/5
Break ³	117	MPa	ASTM D638
Break	129	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.3	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Break ⁵	3.3	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	7510	MPa	ASTM D790
-- ⁷	7930	MPa	ISO 178
Flexural Stress			
--	191	MPa	ISO 178
Yield, 50.0 mm Span ⁸	178	MPa	ASTM D790
Break, 50.0 mm Span ⁹	176	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.67		
vs. Itself - Static	0.53		
Wear Factor			ASTM D3702 Modified
Ring	0.200	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	14.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	150	J/m	ASTM D256
23°C ¹⁰	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ¹¹	59	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.90	J	ASTM D3763
--	3.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	177	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	177	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	172	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	169	°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	216 to 227	°C	
Middle Temperature	221 to 232	°C	
Front Temperature	227 to 238	°C	
Processing (Melt) Temp	227 to 238	°C	
Mold Temperature	71.1 to 82.2	°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.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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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

