

LNP™ LUBRICOMP™ IFP36 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP LUBRICOMP IFP36 is a Nylon 6/12 base resin containing 30% Glass Fiber, 15% PTFE/Silicone. Added features of this grade include: Wear Resistant.

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

Product reorder name: IFP36

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			
--	1.45	g/cm ³	ASTM D792
--	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.19	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.28	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9700	MPa	ASTM D638
--	9730	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	145	MPa	ASTM D638
Yield	146	MPa	ISO 527-2/5
Break ³	145	MPa	ASTM D638
Break	146	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.8	%	ASTM D638
Yield	2.7	%	ISO 527-2/5
Break ⁵	2.8	%	ASTM D638
Break	2.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	8870	MPa	ASTM D790

-- ⁷	8950	MPa	ISO 178
Flexural Stress			
--	225	MPa	ISO 178
Yield, 50.0 mm Span ⁸	229	MPa	ASTM D790
Break, 50.0 mm Span ⁹	229	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.62		
vs. Itself - Static	0.52		
Wear Factor			ASTM D3702 Modified
Ring	1.90	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	12.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ¹¹	60	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	214	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	200	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	197	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-5	cm/cm/°C	
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.	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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