

LNP™ LUBRICOMP™ IFL21 compound

Polyamide 612
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* IFL21 is a compound based on Nylon 6/12 resin containing 5% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound IFL-4021

Product reorder name: IFL21

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.70	%	
Across Flow : 24 hr	0.80 to 1.1	%	
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3630	MPa	ASTM D638
--	3510	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	63.0	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/5
Break ³	63.0	MPa	ASTM D638
Break	64.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.3	%	ASTM D638
Yield	2.5	%	ISO 527-2/5
Break ⁵	2.3	%	ASTM D638
Break	2.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2870	MPa	ASTM D790
-- ⁷	3030	MPa	ISO 178

Flexural Stress			
--	97.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	99.0	MPa	ASTM D790
Break, 50.0 mm Span ⁹	98.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.37		
vs. Itself - Static	0.32		
Wear Factor			ASTM D3702 Modified
Ring	7.45	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	129	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	34	J/m	ASTM D256
23°C ¹⁰	3.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ¹¹	17	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.90	J	ASTM D3763
--	1.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	200	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	197	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	183	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	162	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.3E-4	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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