

LNP™ LUBRICOMP™ IFL34 compound

Polyamide 612
SABIC Innovative Plastics

Message:

LNP LUBRICOMP IFL34 is a compound based on Nylon 6/12 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound IFL-4034
Product reorder name: IFL34

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.30 - 0.50	%	ASTM D955
Transverse flow: 24 hours	1.0 - 1.2	%	ASTM D955
Vertical flow direction: 24 hours	1.1	%	ISO 294-4
Flow direction: 24 hours	0.41	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6890	MPa	ASTM D638
--	7100	MPa	ISO 527-2/1
Tensile Strength			
Yield	116	MPa	ASTM D638
Yield	121	MPa	ISO 527-2
Fracture	116	MPa	ASTM D638
Fracture	121	MPa	ISO 527-2
Tensile Elongation			
Yield	3.1	%	ASTM D638, ISO 527-2
Fracture	3.1	%	ASTM D638
Fracture	3.0	%	ISO 527-2
Flexural Modulus			
--	5520	MPa	ASTM D790
--	6100	MPa	ISO 178
Flexural Strength			
--	172	MPa	ASTM D790
--	176	MPa	ISO 178

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.46	ASTM D3702 Modified	
With Self-Static	0.47	ASTM D3702 Modified	
Wear Factor - Washer	18.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	9.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	930	J/m	ASTM D4812
23°C ³	54	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.70	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	213	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	212	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	197	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	195	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	9.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	3.9E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 - 0.20	%	
Rear Temperature	254 - 266	°C	
Middle Temperature	260 - 271	°C	
Front Temperature	271 - 282	°C	
Processing (Melt) Temp	271 - 277	°C	
Mold Temperature	65.6 - 93.3	°C	
Back Pressure	0.172 - 0.344	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		

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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

