

LNP™ LUBRICOMP™ IFL34 compound

Polyamide 612

SABIC Innovative Plastics

Message:

LNP LUBRICOMP IFL34 is a compound based on Nylon 6/12 resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound IFL-4034

Product reorder name: IFL34

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
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 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	1.0 to 1.2	%	ASTM D955
Across Flow : 24 hr	1.1	%	ISO 294-4
Flow : 24 hr	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
Break	116	MPa	ASTM D638
Break	121	MPa	ISO 527-2
Tensile Elongation			
Yield	3.1	%	ASTM D638, ISO 527-2
Break	3.1	%	ASTM D638
Break	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
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.47		
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, 3.20 mm	213	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	212	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	197	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	195	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	9.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Transverse : -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 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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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