

LNP™ LUBRICOMP™ GFL36L compound

Polysulfone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP GFL36L is a compound based on Polysulfone resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated, Low Extractible.
Also known as: LNP* LUBRICOMP* Compound GFL-4036 LE
Product reorder name: GFL36L

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Low extract		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.51	%	ISO 294-4
Flow direction: 24 hours	0.26	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10300	MPa	ASTM D638
--	9330	MPa	ISO 527-2/1
Tensile Strength			
Yield	88.9	MPa	ASTM D638
Yield	87.0	MPa	ISO 527-2
Fracture	88.9	MPa	ASTM D638
Fracture	87.0	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	1.3	%	ASTM D638, ISO 527-2
Fracture	1.3	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	8960	MPa	ASTM D790
--	9000	MPa	ISO 178
Flexural Strength			
--	110	MPa	ASTM D790

--	121	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.42		ASTM D3702 Modified
With Self-Static	0.62		ASTM D3702 Modified
Wear Factor - Washer	44.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	8.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	14.4	J	ASTM D3763
--	3.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	185	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	186	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	180	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	181	°C	ISO 75-2/af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	3.1E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	3.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	2.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.4E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 - 338	°C	
Middle Temperature	338 - 349	°C	
Front Temperature	349 - 360	°C	
Processing (Melt) Temp	360 - 371	°C	
Mold Temperature	149	°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		

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