

LNP™ LUBRICOMP™ RFL36L compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL36L is a compound based on Nylon 66 resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractible.

Also known as: LNP* LUBRICOMP* Compound RFL-4036 LE

Product reorder name: RFL36L

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Extractables		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40 to 0.60	%	ASTM D955
Across Flow : 24 hr	1.3 to 1.5	%	ASTM D955
Across Flow : 24 hr	1.4	%	ISO 294-4
Flow : 24 hr	0.53	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10300	MPa	ASTM D638
--	10100	MPa	ISO 527-2/1
Tensile Strength			ASTM D638, ISO 527-2
Yield	152	MPa	
Break	152	MPa	
Tensile Elongation			ASTM D638, ISO 527-2
Yield	2.8	%	
Break	2.8	%	
Flexural Modulus			
--	8270	MPa	ASTM D790
--	9300	MPa	ISO 178
Flexural Strength			
--	214	MPa	ASTM D790
--	230	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.67		
vs. Itself - Static	0.65		
Wear Factor - Washer	4.50	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	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ³	61	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.6	J	ASTM D3763
--	2.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	261	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	252	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	247	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.9E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°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		
5.	80*10*4 mm		

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