

LNP™ LUBRICOMP™ RBL36L compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RBL36L is a compound based on Nylon 66 containing 30% Glass Bead, 15% PTFE. Added features of this grade are: Low Extractable, Wear Resistant.

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

Product reorder name: RBL36L

General Information			
Filler / Reinforcement	Glass Bead,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			
--	1.53	g/cm ³	ASTM D792
--	1.52	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 4.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.43	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.54	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4180	MPa	ASTM D638
--	4100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	66.0	MPa	ASTM D638
Break	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	8.8	%	ASTM D638
Break ⁴	9.1	%	ASTM D638
Break	8.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	3950	MPa	ASTM D790
-- ⁶	3820	MPa	ISO 178

Flexural Stress	109	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.57		
vs. Itself - Static	0.58		
Wear Factor			ASTM D3702 Modified
Ring	0.200	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	32.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	41	J/m	ASTM D256
23°C ⁷	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ⁸	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.30	J	ASTM D3763
--	1.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	231	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	223	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	91.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	97.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.0E-4	cm/cm/°C	
Transverse : -30 to 30°C	7.5E-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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		

5.	1.3 mm/min
6.	2.0 mm/min
7.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	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



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