LNP™ LUBRICOMP™ RFL36L compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL36L is a compound based on Nylon 66 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated, Low Extractible.
Also known as: LNP* LUBRICOMP* Compound RFL-4036 LE
Product reorder name: RFL36L

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	1.52	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40 - 0.60	%	ASTM D955
Transverse flow: 24 hours	1.3 - 1.5	%	ASTM D955
Vertical flow direction: 24 hours	1.4	%	ISO 294-4
Flow direction: 24 hours	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	ASTM D638, ISO 527-2
Fracture	152	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	2.8	%	ASTM D638, ISO 527-2
Fracture	2.8	%	ASTM D638, ISO 527-2
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

With self-dynamics	0.67		ASTM D3702 Modified
With Self-Static	0.65		ASTM D3702 Modified
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/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C [3]	61	kJ/m²	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, 3.20mm	261	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	260	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	252	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	247	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	93.3 - 110	°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		

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