LNP™ LUBRICOMP™ RFG16S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFG16S is a compound based on Nylon 66 resin containing 5% Graphite, 30% Glass Fiber. Added features of this material include: Heat Stabilized, Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RFL-4316 HS
Product reorder name: RFG16S

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Graphite Powder Lubricant (5%) Heat Stabilizer
Features	Good Wear Resistance Heat Stabilized Lubricated
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.38	g/cm³	ASTM D792
--	1.37	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.60	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.90	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [1]	11200	MPa	ASTM D638
--	9640	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	169	MPa	ASTM D638
Yield	165	MPa	ISO 527-2/5
Break [3]	169	MPa	ASTM D638
Break	165	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.7	%	ASTM D638
Yield	2.8	%	ISO 527-2/5

Break [5]	2.7	%	ASTM D638
Break	2.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	8380	MPa	ASTM D790
-- [7]	8450	MPa	ISO 178
Flexural Stress			
--	232	MPa	ISO 178
Yield, 50.0 mm Span [8]	234	MPa	ASTM D790
Break, 50.0 mm Span [9]	233	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.40		
vs. Itself - Static	0.37		
Wear Factor			ASTM D3702 Modified
Ring	0.100	10^-10 in^5-min/ft-lb-hr	
Washer	143	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [10] (23°C)	6.4	kJ/m^2	ISO 180/1A
Unnotched Izod Impact			
23°C	690	J/m	ASTM D4812
23°C [11]	46	kJ/m^2	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.60	J	ASTM D3763
--	2.20	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	257	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [12]	257	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	248	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [13]	242	°C	ISO 75-2/Af
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.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	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