

LNP™ LUBRICOMP™ RFL16 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFL16 is a compound based on Nylon 66 resin containing 30% Glass Fiber, 5% PTFE. Added features of this material include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RFL-4016
Product reorder name: RFL16

General Information			
UL YellowCard	E121562-101282711		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.43	g/cm³	ASTM D792
--	1.40	g/cm³	ISO 1183, ASTM D792
Water Absorption			
24 hr, 50% RH	0.57	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.88	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11000	MPa	ASTM D638
--	10600	MPa	ISO 527-2/1
Tensile Stress			
Yield	188	MPa	ISO 527-2/5
Break ²	189	MPa	ASTM D638
Break	185	MPa	ISO 527-2/5
Tensile Strain			
Yield	2.8	%	ISO 527-2/5
Break ³	2.8	%	ASTM D638
Break	2.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	8920	MPa	ASTM D790
-- ⁵	8980	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	263	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.55		
vs. Itself - Static	0.53		
Wear Factor			ASTM D3702 Modified
Ring	0.400	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	16.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ⁷	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1100	J/m	ASTM D4812
23°C ⁸	62	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.40	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	259	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	262	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	251	°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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	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

