LNP™ LUBRICOMP™ RFI12 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RFI12 is a compound based on Nylon 66 resin containing 10% Glass Fiber, 2% Silicone. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RFL-4412
Product reorder name: RFI12

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Silicone Lubricant (2%)		
Features	Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 2.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.98	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.5	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	5500	MPa	ASTM D638
--	5260	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	114	MPa	ASTM D638
Yield	107	MPa	ISO 527-2/5
Break [3]	114	MPa	ASTM D638
Break	107	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.8	%	ASTM D638
Yield	2.7	%	ISO 527-2/5
Break [5]	2.8	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	4780	MPa	ASTM D790
-- [7]	4440	MPa	ISO 178
Flexural Stress			

--	155	MPa	ISO 178
Yield, 50.0 mm Span [8]	166	MPa	ASTM D790
Break, 50.0 mm Span [9]	165	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.47		
vs. Itself - Static	0.44		
Wear Factor - Washer	261	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	41	J/m	ASTM D256
23°C [10]	4.1	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	460	J/m	ASTM D4812
23°C [11]	28	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.60	J	ASTM D3763
--	1.30	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]	255	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	241	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [13]	236	°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

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