LNP™ LUBRICOMP™ RAL22I compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RAL22I is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid Fiber. Added features of this material include: Wear Resistant, High Impact.
Also known as: LNP* LUBRICOMP* Compound RAL-4022 HI
Product reorder name: RAL22I

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance High Impact Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			ASTM D792
--	1.22	g/cm³	
--	1.20	g/cm³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.57	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.91	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	3520	MPa	ASTM D638
--	3430	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	74.0	MPa	ASTM D638
Break [3]	73.0	MPa	ASTM D638
Break	72.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	8.3	%	ASTM D638
Yield	8.3	%	ISO 527-2/5
Break [5]	8.6	%	ASTM D638
Break	8.6	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span [6]	3290	MPa	ASTM D790
-- [7]	3220	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.33		
vs. Itself - Static	0.26		
Wear Factor			ASTM D3702 Modified
Ring	0.300	10^-10 in^5-min/ft-lb-hr	
Washer	12.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	51	J/m	ASTM D256
23°C [8]	5.7	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	600	J/m	ASTM D4812
23°C [9]	41	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.80	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	243	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	239	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	114	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	5.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.3E-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	277 to 288	°C	
Mold Temperature	82.2 to 93.3	°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.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	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

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