

LNP™ LUBRICOMP™ RAL22 compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* RAL22 is a compound based on Nylon 66 resin containing 10% PTFE, 10% Aramid. Added features of this material include: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound RAL-4022
Product reorder name: RAL22

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.9	%	
Across Flow : 24 hr	2.0	%	
Water Absorption			
24 hr, 50% RH	0.72	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3500	MPa	ISO 527-2/1
Tensile Strength			
Break	81.5	MPa	ASTM D638
Break	79.2	MPa	ISO 527-2
Tensile Elongation			
Break	8.1	%	ASTM D638
Break	9.5	%	ISO 527-2
Flexural Modulus			
--	2960	MPa	ASTM D790
--	3500	MPa	ISO 178
Flexural Strength			
--	113	MPa	ASTM D790
--	117	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.55		
vs. Itself - Static	0.46		
Wear Factor - Washer	13.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ²	5.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	740	J/m	ASTM D4812
23°C ³	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.40	J	ASTM D3763
--	1.42	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	249	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	198	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	193	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	8.1E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	8.3E-5	cm/cm/°C	ISO 11359-2
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT