

LNP™ LUBRICOMP™ RAP22 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RAP22 is a compound based on Nylon 66 resin containing 10% Aramid, 10% PTFE/Silicone. Added feature of this grade includes: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RAL-4522

Product reorder name: RAP22

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
Additive	PTFE + Silicone Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
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	0.71	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3390	MPa	ASTM D638
--	3430	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	51.9	MPa	ASTM D638
Yield	71.0	MPa	ISO 527-2/5
Break ³	49.1	MPa	ASTM D638
Break	71.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.7	%	ASTM D638
Yield	6.0	%	ISO 527-2/5
Break ⁵	2.7	%	ASTM D638
Break	6.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	3260	MPa	ASTM D790
-- ⁷	3260	MPa	ISO 178

Flexural Stress	103	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.38		
vs. Itself - Static	0.26		
Wear Factor			ASTM D3702 Modified
Ring	-0.300 to -0.200	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	23.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C ⁸	3.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	340	J/m	ASTM D4812
23°C ⁹	25	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.70	J	ASTM D3763
--	0.900	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	224	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	189	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	100	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.7E-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

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.

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

