

LNP™ LUBRICOMP™ RAL22 compound

Polyamide 66
SABIC Innovative Plastics

Message:

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

General Information			
Filler / Reinforcement	Aramid fiber		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.9	%	ASTM D955
Transverse flow: 24 hours	2.0	%	ASTM D955
Vertical flow direction: 24 hours	2.0	%	ISO 294-4
Flow direction: 24 hours	1.9	%	ISO 294-4
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			
Fracture	81.5	MPa	ASTM D638
Fracture	79.2	MPa	ISO 527-2
Tensile Elongation			
Fracture	8.1	%	ASTM D638
Fracture	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			
With self-dynamics	0.55		ASTM D3702 Modified

With Self-Static	0.46		ASTM D3702 Modified
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, 3.20mm	249	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	198	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	193	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	8.1E-5	cm/cm/°C	ASTM E831
Lateral: -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 - 0.25	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	282 - 293	°C	
Front Temperature	293 - 304	°C	
Processing (Melt) Temp	277 - 288	°C	
Mold Temperature	82.2 - 93.3	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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