

LNP™ LUBRICOMP™ RAL22S compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP LUBRICOMP RAL22S 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 HS

Product reorder name: RAL22S

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)	0.70	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3500	MPa	ISO 527-2/1
Tensile Strength			
Break	81.4	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			
--	110	MPa	ASTM D790
--	117	MPa	ISO 178
Coefficient of Friction			
vs. Itself - Dynamic	0.55		ASTM D3702 Modified
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	750	J/m	ASTM D4812
23°C ³	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	6.00	J	ASTM D3763
--	1.00	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			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.4E-5	cm/cm/°C	
Transverse : -40 to 40°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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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