

LNP™ LUBRICOMP™ RAL22S compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RAL22S is a compound based on Nylon 66 resin containing PTFE, Aramid Fiber. Added features of this material include: Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound RAL-4022 HS

Product reorder name: RAL22S

General Information			
Filler / Reinforcement	Aramid fiber		
Additive	Graphite powder lubricant		
Features	Lubrication		
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)	0.70	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3500	MPa	ISO 527-2/1
Tensile Strength			
Fracture	81.4	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			
--	110	MPa	ASTM D790
--	117	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.55		ASTM D3702 Modified
With Self-Static	0.46		ASTM D3702 Modified
Wear Factor - Washer	13.0	10 ⁻¹⁰ in ⁴ -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, 3.20mm	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			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	7.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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