

LNP™ LUBRICOMP™ RAL32 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* RAL32 is a compound based on Nylon 66 resin containing 10% Aramid, 15% PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound RAL-4032

Product reorder name: RAL32

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 2.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.74	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3850	MPa	ASTM D638
--	3860	MPa	ISO 527-2/1
Tensile Strength			
Break ²	83.0	MPa	ASTM D638
Break	78.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	5.9	%	ASTM D638
Break	6.2	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	3480	MPa	ASTM D790
-- ⁵	3480	MPa	ISO 178
Flexural Stress			
--	113	MPa	ISO 178
Yield, 50.0 mm Span ⁶	124	MPa	ASTM D790
Break, 50.0 mm Span ⁷	123	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.34		
vs. Itself - Static	0.30		
Wear Factor			ASTM D3702 Modified
Ring	0.600	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	12.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	46	J/m	ASTM D256
23°C ⁸	3.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	470	J/m	ASTM D4812
23°C ⁹	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.96	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	254	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	242	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	208	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	115	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.2E-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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		

7.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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