

LNP™ LUBRICOMP™ RAL22 compound

Polyamide 66

SABIC Innovative Plastics

Message:

LNP LUBRICOMP RAL22 is a compound based on PA66 resin containing PTFE, Aramid Fiber. Added Features: 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		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.90 - 1.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	72.0	MPa	ISO 527-2/5
Fracture	71.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	7.4	%	ISO 527-2/5
Flexural Modulus ¹	3400	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	106	MPa	ISO 178
-- ⁴	109	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.54		ASTM D3702 Modified
With Self-Static	0.45		ASTM D3702 Modified
Flexural Strain at Break ⁵	8.4	%	ISO 178
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 ⁶ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (1.8 MPa, Unannealed, 64.0 mm Span)	93.0	°C	ISO 75-2/Af
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. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | Break |
| 4. | Yield |
| 5. | 2 mm/min |
| 6. | 80*10*4 |
| 7. | 80*10*4 |
| 8. | 80*10*4 mm |

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