

LNP™ LUBRICOMP™ RCP36XXP compound

Polyamide 66

SABIC Innovative Plastics Europe

Message:

LNP* Lubricomp* RCP36XXP is a compound based on Nylon 66 resin containing PTFE, Carbon Fiber, Silicone. Added features of this material include: Electrically Conductive, Easy Molding, Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound RCL4536SLV

Product reorder name: RCP36XXP

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE + Silicone Lubricant		
Features	Electrically Conductive		
	Good Moldability		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.10 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	150	MPa	ISO 527-2/5
Tensile Strain (Break)	0.90	%	ISO 527-2/5
Flexural Modulus ²	12000	MPa	ISO 178
Flexural Stress	236	MPa	ISO 178
Coefficient of Friction (vs. Itself - Dynamic)	0.34		ASTM D3702 Modified
Wear Factor - Washer	16.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	46	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 64.0 mm Span)	244	°C	ISO 75-2/Af
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. | Tensile Bar |
| 2. | 2.0 mm/min |
| 3. | 80*10*4 |
| 4. | 80*10*4 |
| 5. | 80*10*4 mm |

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