

LNP™ LUBRICOMP™ JCL36 compound

Polyethersulfone

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP JCL36 is a compound based on Polyethersulfone resin containing Carbon Fiber, PTFE. Added features include : Internally Lubricated, Electrically Conductive.

General Information			
UL YellowCard	E45329-101344677		
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.50	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19300	MPa	ISO 527-2/1
Tensile Stress (Break)	142	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus ¹	17000	MPa	ISO 178
Flexural Stress	218	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	7.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	25	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	223	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	7.0E-6	cm/cm/°C	
Transverse : 23 to 60°C	3.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.050	%
Rear Temperature	343 to 354	°C
Middle Temperature	360 to 371	°C
Front Temperature	371 to 382	°C
Processing (Melt) Temp	354 to 371	°C
Mold Temperature	138 to 149	°C
Back Pressure	0.344 to 0.689	MPa
Screw Speed	60 to 100	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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