

LNP™ LUBRICOMP™ LCL36E compound

Polyetheretherketone

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP LCL36E is a compound based on Polyetheretherketone resin containing Carbon Fiber , PTFE. Added features include : Electrically Conductive, Internally Lubricated, Easy Molding.

General Information			
UL YellowCard	E45329-101284426		
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive		
	Good Moldability		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21600	MPa	ISO 527-2/1
Tensile Stress (Break)	224	MPa	ISO 527-2/5
Tensile Strain (Break)	2.4	%	ISO 527-2/5
Flexural Modulus ¹	19800	MPa	ISO 178
Flexural Stress	317	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	9.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	40	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	> 300	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.4E-6	cm/cm/°C	
Transverse : 23 to 60°C	4.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 to 360	°C	

Middle Temperature	366 to 377	°C
Front Temperature	382 to 393	°C
Processing (Melt) Temp	382 to 388	°C
Mold Temperature	138 to 166	°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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