

LNP™ THERMOCOMP™ LC006 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LC006 is a compound based on Polyetheretherketone containing Carbon Fiber. Added features include: Electrically Conductive.

General Information			
UL YellowCard	E45329-101284425		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	23400	MPa	ISO 527-2/1
Tensile Stress (Break)	219	MPa	ISO 527-2/5
Tensile Strain (Break)	1.7	%	ISO 527-2/5
Flexural Modulus ¹	17000	MPa	ISO 178
Flexural Stress	301	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	45	kJ/m ²	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
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.9E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	

Front Temperature	382 - 393	°C
Processing (Melt) Temp	382 - 388	°C
Mold Temperature	138 - 166	°C
Back Pressure	0.344 - 0.689	MPa
Screw Speed	60 - 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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