

LNP™ THERMOCOMP™ EC006 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EC006 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features include: Electrically Conductive.

General Information			
UL YellowCard	E45329-101282614		
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19500	MPa	ISO 527-2/1
Tensile Stress (Break)	219	MPa	ISO 527-2/5
Tensile Strain (Break)	1.3	%	ISO 527-2/5
Flexural Modulus ¹	15900	MPa	ISO 178
Flexural Stress	278	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 64.0 mm Span)	214	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	7.5E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	3.9E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	

Processing (Melt) Temp	360 - 366	°C
Mold Temperature	121 - 149	°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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