

LNP™ THERMOCOMP™ QC006 compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP * THERMOCOMP* QC006 is a compound based on PA610 resin containing Carbon Fiber. Added features include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound QC-1006

Product reorder name: QC006

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18700	MPa	ISO 527-2/1
Tensile Stress (Break)	196	MPa	ISO 527-2/5
Tensile Strain (Break)	2.7	%	ISO 527-2/5
Flexural Modulus ¹	15200	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	280	MPa	ISO 178
-- ⁴	290	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵ (23°C)	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	65	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, unannealed, 64.0mm span	221	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	205	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	7.4E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	9.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 - 0.25	%	

Rear Temperature	266 - 277	°C
Middle Temperature	282 - 293	°C
Front Temperature	293 - 304	°C
Processing (Melt) Temp	277 - 288	°C
Mold Temperature	82.2 - 93.3	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

1.	2.0 mm/min
2.	2.0 mm/min
3.	Break
4.	Yield
5.	80*10*4
6.	80*10*4
7.	80*10*4 mm

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