

LNP™ THERMOCOMP™ EC006AQW

compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* EC006AQW is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include:
Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound EC006AQW

Product reorder name: EC006AQW

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/6.7 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.030 - 0.10	%	ASTM D955
Transverse flow: 24 hours	0.10 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	29200	MPa	ASTM D638
--	27500	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	255	MPa	ASTM D638
Fracture	257	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	1.4	%	ASTM D638
Fracture	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	22200	MPa	ASTM D790
-- ⁵	23300	MPa	ISO 178
Flexural Stress			
--	350	MPa	ISO 178
Fracture, 50.0mm span ⁶	351	MPa	ASTM D790
Compressive Strength	234	MPa	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	81	J/m	ASTM D256

23°C ⁷	7.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C ⁸	33	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	198	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	198	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	120 - 150	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	380 - 400	°C	
Middle Temperature	380 - 400	°C	
Front Temperature	380 - 400	°C	
Processing (Melt) Temp	380 - 400	°C	
Mold Temperature	165 - 180	°C	
Back Pressure	0.300 - 0.700	MPa	
Screw Speed	50 - 100	rpm	
Injection instructions			
Injection Speed: 40 - 70 mm/s			
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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