

LNP™ THERMOCOMP™ EC006APQ

compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EC006APQ is a compound based on Polyetherimide containing 30% Carbon Fiber. Added features include: Electrically Conductive, High Flow.

Also known as: LNP* THERMOCOMP* Compound EC006APQ

Product reorder name: EC006APQ

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Features	Conductivity		
	High liquidity		
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)	69	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.030	%	ASTM D955
Transverse flow: 24 hours	0.10	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	30500	MPa	ASTM D638
--	29300	MPa	ISO 527-2/1
Tensile Strength			
Fracture ²	281	MPa	ASTM D638
Fracture	252	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	1.1 - 1.3	%	ASTM D638
Fracture	1.1	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	26300	MPa	ASTM D790
-- ⁵	23900	MPa	ISO 178
Flexural Stress			
--	332	MPa	ISO 178
Fracture, 50.0mm span ⁶	350	MPa	ASTM D790
Compressive Strength	231	MPa	Internal method

Shear Modulus	4730	MPa	ASTM C273
Shear Strength	128	MPa	ASTM C273
Poisson's Ratio	0.44		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	82	J/m	ASTM D256
Unnotched Izod Impact (23°C)	710	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	195	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 150°C	7.0E-6	cm/cm/°C	ASTM E831
Lateral: -40 to 150°C	5.0E-6	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
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		

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