

LNP™ THERMOCOMP™ EC004XXC

compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP EC004XXC is a compound based on Polyetherimide resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound EC-1004

Product reorder name: EC004XXC

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.30 - 0.50	%	ISO 294-4
Flow direction: 24 hours	0.10 - 0.30	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ISO 527-2/1
Tensile Strength			
Fracture	170	MPa	ASTM D638
Fracture	175	MPa	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	12300	MPa	ASTM D790
--	12000	MPa	ISO 178
Flexural Strength			
--	260	MPa	ASTM D790
--	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ¹	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	530	J/m	ASTM D4812
23°C ²	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	213	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ³	210	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: -40 to 40°C	1.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.500 mm, Testing by SABIC)	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.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		

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