

LNP™ THERMOCOMP™ EC008 compound

Polyether Imide

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP EC008 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features include: Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound EC-1008

Product reorder name: EC008

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.010 to 0.050	%	
Across Flow : 24 hr	0.10 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	27000	MPa	ISO 527-2/1
Tensile Stress (Yield)	211	MPa	ISO 527-2/5
Tensile Strain (Break)	0.90	%	ISO 527-2/5
Flexural Modulus ¹	22200	MPa	ISO 178
Flexural Stress	286	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	25	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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	

Back Pressure	0.344 to 0.689	MPa
Screw Speed	60 to 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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