

# LNP™ THERMOCOMP™ LC008E compound

Polyetheretherketone

SABIC Innovative Plastics

## Message:

LNP THERMOCOMP LC008E is a compound based on Polyetheretherketone resin containing Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive.

Also known as: LNP\* THERMOCOMP\* Compound LC-1008 EM

Product reorder name: LC008E

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity Good formability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.73	%	ISO 294-4
Flow direction: 24 hours	0.050	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- <sup>1</sup>	33100	MPa	ASTM D638
--	30500	MPa	ISO 527-2/1
Tensile Strength			
Yield	241	MPa	ASTM D638
Yield	242	MPa	ISO 527-2
Fracture	241	MPa	ASTM D638
Fracture	242	MPa	ISO 527-2
Tensile Elongation			
Yield	1.3	%	ASTM D638, ISO 527-2
Fracture	1.3	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	26900	MPa	ASTM D790
--	27500	MPa	ISO 178
Flexural Strength			
--	365	MPa	ASTM D790
--	352	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C <sup>2</sup>	5.2	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact			
23°C	700	J/m	ASTM D4812
23°C <sup>3</sup>	40	kJ/m <sup>2</sup>	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.40	J	ASTM D3763
--	3.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	339	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span <sup>4</sup>	338	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	323	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span <sup>5</sup>	326	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.0E-6	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	
Front Temperature	382 - 393	°C	
Processing (Melt) Temp	382 - 388	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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Recommended distributors for this material

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