

LNP™ THERMOCOMP™ LC008E compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP THERMOCOMP LC008E is a compound based on Polyetheretherketone resin containing 40% 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,40% Filler by Weight		
Features	Electrically Conductive		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.60 to 0.80	%	ASTM D955
Across Flow : 24 hr	0.73	%	ISO 294-4
Flow : 24 hr	0.050	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	33100	MPa	ASTM D638
--	30500	MPa	ISO 527-2/1
Tensile Strength			
Yield	241	MPa	ASTM D638
Yield	242	MPa	ISO 527-2
Break	241	MPa	ASTM D638
Break	242	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	1.3	%	
Break	1.3	%	
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 ²	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	700	J/m	ASTM D4812
23°C ³	40	kJ/m ²	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, 3.20 mm	339	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	338	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	323	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	326	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.0E-6	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 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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