

LNP™ THERMOCOMP™ LCF62E compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP THERMOCOMP LCF62E is a compound based on Polyetheretherketone resin containing 10% Carbon, 30% Glass Fiber fillers. Added features of this material includes: Easy Molding, Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound LCF-1008 EM

Product reorder name: LCF62E

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.090 to 2.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.026	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.026	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	63000	MPa	ASTM D638
--	41100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	204	MPa	ASTM D638
Break	196	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	0.87	%	ASTM D638
Break	0.74	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	17300	MPa	ASTM D790
-- ⁵	36500	MPa	ISO 178
Flexural Stress			
--	391	MPa	ISO 178
Break, 50.0 mm Span ⁶	297	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	80	J/m	ASTM D256
23°C ⁷	8.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	710	J/m	ASTM D4812
23°C ⁸	48	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	17.4	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	290	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	290	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	290	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	290	°C	ISO 75-2/Af
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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