

LNP™ THERMOCOMP™ ECF62 compound

Polyether Imide
SABIC Innovative Plastics

Message:

LNP THERMOCOMP ECF62 is a compound based on Polyetherimide resin containing 30% Glass Fiber, 10% Carbon Fiber. Added features of this material include: Electrically Conductive.

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

Product reorder name: ECF62

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,30% Filler by Weight		
Features	Electrically Conductive		
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	0.10 to 0.20	%	
Across Flow : 24 hr	0.30 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	17900	MPa	ASTM D638
Tensile Strength (Break)	185	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	490	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	212	°C	ASTM D648
CLTE			ASTM E831
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	2.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+10 to 1.0E+11	ohms · cm	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. 50 mm/min

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Recommended distributors for this material

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