

LNP™ THERMOCOMP™ ECF62 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP ECF62 is a compound based on Polyetherimide resin containing Glass Fiber, 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	Glass, carbon fiber reinforced materials		
Features	Conductivity		
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 hours	0.10 - 0.20	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.40	%	ASTM D955
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
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	2.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+10 - 1.0E+11	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	

Front Temperature	366 - 377	°C
Processing (Melt) Temp	360 - 366	°C
Mold Temperature	121 - 149	°C
Back Pressure	0.344 - 0.689	MPa
Screw Speed	60 - 100	rpm

NOTE

1. 50 mm/min

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Recommended distributors for this material

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