



LNP™ THERMOCOMP™ Compound ECF62

Americas: COMMERCIAL

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

Product reorder name: ECF62

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.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1890	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	182700	kgf/cm ²	ASTM D 638
Flexural Stress	2740	kgf/cm ²	ASTM D 790
Flexural Modulus	161700	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	49	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.52E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.34E-05	1/°C	ASTM E 831
PHYSICAL			
Density	1.57	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.4	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	1.E+10 - 1.E+11	Ohm-cm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm