LNP™ THERMOCOMP™ COMPOUND ECF62

ECF-1008
REGION ASIA

DESCRIPTION

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 PROPERTY VALUES

Revision 20190102

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	185	MPa	ASTM D 638
Tensile Strain, break	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	17920	MPa	ASTM D 638
Flexural Stress	268	MPa	ASTM D 790
Flexural Modulus	15850	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	485	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	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/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 – 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.4	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	10000000000 – 100000000000	Ohm-cm	ASTM D 257
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	

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