LNP™ THERMOCOMP™ COMPOUND EC008

EC-1008

DESCRIPTION

LNP THERMOCOMP EC008 is a compound based on Polyetherimide resin containing Carbon Fiber. Added features include: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	211	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	27000	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	286	MPa	ISO 178
Flexural Modulus, 2 mm/min	22200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	214	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow, 24 hrs	0.01 – 0.05	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.1 – 0.5	%	ASTM D 955
Density	1.44	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 – 1.E+03	Ohm	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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