LNP™ THERMOCOMP™ COMPOUND LC008E

LC-1008 EM
REGION ASIA

DESCRIPTION

LNP THERMOCOMP LC008E is a compound based on Polyetheretherketone resin containing 40% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20181219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	240	MPa	ASTM D 638
Tensile Stress, break	240	MPa	ASTM D 638
Tensile Strain, yield	1.3	%	ASTM D 638
Tensile Strain, break	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	33090	MPa	ASTM D 638
Flexural Stress	365	MPa	ASTM D 790
Flexural Modulus	26880	MPa	ASTM D 790
Tensile Stress, yield	242	MPa	ISO 527
Tensile Stress, break	242	MPa	ISO 527
Tensile Strain, yield	1.3	%	ISO 527
Tensile Strain, break	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	30520	MPa	ISO 527
Flexural Stress	352	MPa	ISO 178
Flexural Modulus	27500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	704	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	8	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	338	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	322	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.7E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.E-06	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	338	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	326	°C	ISO 75/Af
PHYSICAL			
Density	1.47	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.05	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.73	%	ISO 294
Density	1.47	g/cm³	ISO 1183
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	380 – 390	°C	
Front - Zone 3 Temperature	380 – 395	°C	
Middle - Zone 2 Temperature	365 – 375	°C	
Rear - Zone 1 Temperature	350 – 360	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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