



LNP™ THERMOCOMP™ Compound LC008E

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound LC-1008 EM

Product reorder name: LC008E

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 PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	2450	kgf/cm ²	ASTM D 638
Tensile Stress, break	2450	kgf/cm ²	ASTM D 638
Tensile Strain, yield	1.3	%	ASTM D 638
Tensile Strain, break	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	337400	kgf/cm ²	ASTM D 638
Flexural Stress	3720	kgf/cm ²	ASTM D 790
Flexural Modulus	274100	kgf/cm ²	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	71	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	85	cm-kgf	ASTM D 3763
Multiaxial Impact	34	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	338	°C	ASTM D 648



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THERMAL			
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/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.05	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.73	%	ISO 294
Density	1.47	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Front - Zone 3 Temperature	380 - 400	°C
Middle - Zone 2 Temperature	380 - 400	°C
Rear - Zone 1 Temperature	370 - 380	°C
Mold Temperature	175 - 190	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm