LNP™ THERMOCOMP™ COMPOUND LCF62E

LCF-1008 EM
REGION ASIA

DESCRIPTION

LNP THERMOCOMP LCF62E is a compound based on Polyetheretherketone resin containing 10% Carbon, 30% Glass Fiber fillers. Added features of this material includes: Easy Molding, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20181219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	203	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	62980	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	296	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	17340	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	196	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.7	%	ISO 527
Tensile Modulus, 1 mm/min	41090	MPa	ISO 527
Flexural Stress	391	MPa	ISO 178
Flexural Modulus, 2 mm/min	36490	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	711	J/m	ASTM D 4812
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	17	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	290	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	290	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	290	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	290	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.57	-	ASTM D 792
Density	1.57	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.09 – 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	380 – 390	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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