LNP™ THERMOTUF™ COMPOUND DF008EI

DF-1008 EM HI MR
REGION ASIA

DESCRIPTION

LNP THERMOTUF DF008EI is a compound based on Polycarbonate resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Mold Release, High Impact.

TYPICAL PROPERTY VALUES

Revision 20190312

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	132	MPa	ASTM D 638
Tensile Stress, break	132	MPa	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	12630	MPa	ASTM D 638
Flexural Stress	199	MPa	ASTM D 790
Flexural Modulus	10610	MPa	ASTM D 790
Tensile Stress, yield	129	MPa	ISO 527
Tensile Stress, break	130	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	11060	MPa	ISO 527
Flexural Stress	140	MPa	ISO 178
Flexural Modulus	10090	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	838	J/m	ASTM D 4812
Izod Impact, notched, 23°C	160	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	23	J	ASTM D 3763
Multiaxial Impact	7	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	51	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	133	°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	4.14E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.66E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.25E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
Relative Temp Index, Elec [1]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	80	°C	UL 746B
PHYSICAL			
Density	1.51	g/cm³	ASTM D 792

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.04	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.33	%	ISO 294
Density	1.51	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101345229	-	-
UL Recognized, 94HB Flame Class Rating	≥0.4	mm	UL 94

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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