

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 20170816

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
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/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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
PHYSICAL			
Density	1.51	g/cm ³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs (5)	0.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.04	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.33	%	ISO 294
Density	1.51	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	0.4	mm	UL 94
MECHANICAL PROPERTIES			
Flexural modulus	10610	MPa	ISO 178/1A

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

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Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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