



**Americas: COMMERCIAL** 

## LNP\* Thermocomp\* Compound EB004

Also known as: EB-1004 Product Reorder Name: EB004

LNP\* Thermocomp\* EB004 is a compound based on Polyetherimide resin containing Glass Bead.

## **Property**

MECHANICAL	Value	Unit	Standard
Tensile Stress, break	95	MPa	ASTM D 638
Tensile Strain, break	8.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	7580	MPa	ASTM D 638
Flexural Stress	158	MPa	ASTM D 790
Flexural Modulus	4820	MPa	ASTM D 790
Tensile Stress, break	97	MPa	ISO 527
Tensile Strain, break	9.6	%	ISO 527
Tensile Modulus, 1 mm/min	4820	MPa	ISO 527
Flexural Stress	130	MPa	ISO 178
Flexural Modulus	4100	MPa	ISO 178
IMPACT	Value	Unit	Standard
zod Impact, unnotched, 23°C	411	J/m	ASTM D 4812
zod Impact, notched, 23°C	37	J/m	ASTM D 256
zod Impact, unnotched 80*10*4 +23°C	24	kJ/m²	ISO 180/1U
zod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	198	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	183	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	204	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	190	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.43	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.58	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.71	%	ISO 294
Density	1.43	g/cm³	ISO 1183

Source GMD, last updated:09/24/2008

## **Processing**

Parameter		
Injection Molding	Value	Unit

Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

## PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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