

## LNP\* Thermocomp\* Compound GF004

Americas: COMMERCIAL

Also known as: GF-1004  
Product Reorder Name: GF004

LNP\* Thermocomp\* GF004 is a compound based on Polysulfone resin containing Glass Fiber.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	91	MPa	ASTM D 638
Tensile Stress, break	91	MPa	ASTM D 638
Tensile Strain, yield	2.3	%	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	6200	MPa	ASTM D 638
Flexural Stress	137	MPa	ASTM D 790
Flexural Modulus	6200	MPa	ASTM D 790
Flexural Stress	145	MPa	ISO 178
Flexural Modulus	6000	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	427	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	178	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	173	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.22E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.52E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	180	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	174	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.41	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.64	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.85	%	ISO 294
Density	1.4	g/cm <sup>3</sup>	ISO 1183

Source GMD, last updated:05/12/2007

### Processing

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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