

## LNP\* Thermocomp\* Compound KF002L

Americas: COMMERCIAL

Also known as: KF-1002 LE  
Product Reorder Name: KF002L

LNP\* Thermocomp\* KF002L is a compound based on Acetal Homopolymer resin containing Glass Fiber. Added features of this material include: Low Extractible.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	66	MPa	ASTM D 638
Tensile Stress, break	63	MPa	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	3.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	6200	MPa	ASTM D 638
Flexural Stress	103	MPa	ASTM D 790
Flexural Modulus	4820	MPa	ASTM D 790
Tensile Stress, yield	65	MPa	ISO 527
Tensile Stress, break	63	MPa	ISO 527
Tensile Strain, yield	2.1	%	ISO 527
Tensile Strain, break	3.2	%	ISO 527
Tensile Modulus, 1 mm/min	5600	MPa	ISO 527
Flexural Stress	105	MPa	ISO 178
Flexural Modulus	4400	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	384	J/m	ASTM D 4812
Izod Impact, notched, 23°C	42	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	2	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	26	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	162	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	155	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.08E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.4E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.12E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.05E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	162	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	148	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.49	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.5 - 1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.7	%	ISO 294

Mold Shrinkage, xflow, 24 hrs	1.6	%	ISO 294
Density	1.49	g/cm <sup>3</sup>	ISO 1183

Source GMD, last updated:09/24/2008

## Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	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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