

LNP\* Thermocomp\* Compound JF004L

Americas: COMMERCIAL

LNP\* Thermocomp\* JF-1004 LE compound is based on Polyethersulfone (PES) containing glass fibers. Characteristics of this grade is:  
Low Extractible

Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	98	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	98	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	6360	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	152	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	152	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6300	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	94	MPa	ISO 527
Tensile Stress, break, 5 mm/min	93	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.1	%	ISO 527
Tensile Strain, break, 5 mm/min	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	6640	MPa	ISO 527
Flexural Stress	149	MPa	ISO 178
Flexural Stress, break, 2 mm/min	148	MPa	ISO 178
Flexural Modulus, 2 mm/min	6300	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	563	J/m	ASTM D 4812
Izod Impact, notched, 23°C	50	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
Instrumented Impact Total Energy, 23°C	11	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	216	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	211	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	216	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.54	-	ASTM D 792
Density	1.53	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.37	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 - 0.7	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.55	%	ISO 62

Source GMD, last updated:05/05/2008

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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