

**Product Texts**

LNP THERMOCOMP D10001VI is based on Polycarbonate (PC) resin. It is colorable, non Chlorinated and non Brominated, UL94 V0@0.8mm LDS compound for antenna or electric circuit manufacturing. Added features of this material include good process-ability, high impact strength, robust flame retardant for thin-wall design, good colorability.

UL Yellow Card Link: [E207780-103685620](https://www.ul.com/yellow-card/E207780-103685620)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	20	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0065	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2600	MPa	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus, 23°C	2600	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy impact strength, +23°C	95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	130	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2550	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	2550	MPa	ASTM D 790
Flexural Strength	90	MPa	ASTM D 790
Izod Impact notched, 1/8 in	650	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2150	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	104	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	116	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	64	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	72	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	62	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70	E-6/K	ASTM D 696
DTUL @ 66 psi	117	°C	ASTM D 648
DTUL @ 264 psi	105	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1300	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-

Melt temperature	<b>270 - 290</b>	°C	-
Mold temperature	<b>100 - 130</b>	°C	-
Zone 1	<b>265 - 290</b>	°C	-
Zone 2	<b>265 - 290</b>	°C	-
Zone 3	<b>265 - 290</b>	°C	-
Nozzle temperature	<b>265 - 290</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free, High impact or impact modified

**Applications**

IT / Business Machine, Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America