

**Product Texts**

LNP THERMOCOMP D10001VP compound is based on Polycarbonate (PC) resin. Added features of this grade include: Improved Plating Surface and Mechanical Performance targeted for Laser Direct Structuring (LDS) applications, Non-Brominated, Non-Chlorinated Flame Retardant, High Impact Strength and Ductility under room and low temperatures and Good Outdoor Weathering performance. D10001VP is available in black only.

UL Yellow Card [E207780-104487788](https://www.ul.com/yellowcard/E207780-104487788)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2250	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Break	95	%	ASTM D 638
Flexural Modulus	2200	MPa	ASTM D 790
Flexural Strength	91	MPa	ASTM D 790
Izod Impact notched, 1/8 in	800	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	220	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	65	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	65	E-6/K	ASTM D 696
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1210	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	270 - 300	°C	-
Zone 2	270 - 300	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	280 - 320	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Black

**Special Characteristics**

Flame retardant, Halogen-free, High impact or impact modified, U.V. stabilized or stable to weather

**Features**

Ductile

**Applications**

Electrical and Electronical

**Regional Availability**

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