

**Product Texts**

LNP THERMOCOMP DF00A1I compound is based on Polycarbonate (PC) resin containing 50% glass fiber. Added features of this grade include: High Modulus, Low Warpage, Good Ductility, Easy flow, Non-Brominated & Non-Chlorinated Flame Retardant.

UL Yellow Card Link: [E207780-104524166](https://www.ulprospector.com/usa/Products/207780-104524166)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	33	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0012	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0012	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15500	MPa	ISO 527
Stress at break	165	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus, 23°C	14400	MPa	ISO 178
Flexural strength	212	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	38	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Modulus	15440	MPa	ASTM D 638
Tensile Strength at Break	160	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	14900	MPa	ASTM D 790
Flexural Strength	230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	120	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	520	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	108	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1	mm	-
Coefficient of Thermal Expansion, MD	14	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	41	E-6/K	ASTM D 696
DTUL @ 264 psi	103	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	5E16	Ohm	ASTM D 257
Volume Resistivity	2.15E16	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1640	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	285 - 310	°C	-

Mold temperature	<b>80 - 110</b>	°C	-
Zone 1	<b>260 - 280</b>	°C	-
Zone 2	<b>270 - 290</b>	°C	-
Zone 3	<b>280 - 300</b>	°C	-
Nozzle temperature	<b>285 - 305</b>	°C	-
Screw speed	<b>50 - 90</b>	rpm	-
Back pressure	<b>0.1 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free

**Features**

Ductile, Low Warpage

**Applications**Building Construction, IT / Business Machine, Electrical and  
Electronical**Regional Availability**

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