

**Product Texts**

LNP THERMOCOMP DF002FVQ compound is based on Polycarbonate (PC) resin containing 10% glass fiber and available in black color only. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications, Good Adhesion Strength, UL94 V0@0.8mm (black).

UL Yellow Card Link [F207780-103895096](https://www.ul.com/yellow-card-link/F207780-103895096)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4620	MPa	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	4100	MPa	ISO 178
Flexural strength	110	MPa	ISO 178
Charpy impact strength, +23°C	42	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	4610	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	4300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	600	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	126	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1350	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 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 310	°C	-
Mold temperature	100 - 130	°C	-
Zone 1	285 - 310	°C	-
Zone 2	285 - 310	°C	-
Zone 3	285 - 310	°C	-
Screw speed	50 - 150	rpm	-
Back pressure	0.1 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive