

**Product Texts**

LNP THERMOCOMP DF0041VI compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications, Non-Brominated, Non-Chlorinated Flame Retardant, Wide Processing Window.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	17	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	6900	MPa	ISO 527
Stress at break	86	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	6400	MPa	ISO 178
Flexural strength	130	MPa	ISO 178
Charpy impact strength, +23°C	30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	26	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	7000	MPa	ASTM D 638
Tensile Strength at Break	85	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	6000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	450	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 66 psi	124	°C	ASTM D 648
DTUL @ 264 psi	118	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1400	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	3 - 4	h	-
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

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific