

**Product Texts**

LNP THERMOCOMP DF006 compound is based on Polycarbonate (PC) resin containing 30% glass fiber.

UL Yellow Card Link [E45329-101282739](https://www.ul.com/yellowcard/E45329-101282739)

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	8100	MPa	ISO 527
Stress at break	122	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	7200	MPa	ISO 178
Flexural strength	185	MPa	ISO 178
Izod impact strength, +23°C, 4mm	58	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	8630	MPa	ASTM D 638
Tensile Strength at Break	120	MPa	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	8100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	155	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	914	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	142	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	146	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	144	°C	ASTM D 648
DTUL @ 264 psi	140	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1440	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1450	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific