

**Product Texts**

LNP THERMOCOMP COMPOUND DC0041PE is a compound based on Polycarbonate resin containing Carbon Fiber. Added feature of this grade is: Flame Retardant, PCR content up to 30%

UL Yellow Card [E207780-104237180](https://www.ul.com/yellow-card/E207780-104237180)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.001	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	18500	MPa	ISO 527
Stress at break	167	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus, 23°C	16800	MPa	ISO 178
Flexural strength	214	MPa	ISO 178
Charpy impact strength, +23°C	31	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	36	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	31	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	7	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	18100	MPa	ASTM D 638
Tensile Strength at Break	165	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	16600	MPa	ASTM D 790
Flexural Strength	223	MPa	ASTM D 790
Izod Impact notched, 1/8 in	57	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	50	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	380	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	101	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	108	°C	ISO 75-1/-2
Vicat softening temperature, B	108	°C	ISO 306
Coeff. of linear therm. expansion, parallel	6.3	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	68	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	6.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	68	E-6/K	ASTM D 696
DTUL @ 66 psi	106	°C	ASTM D 648
DTUL @ 264 psi	100	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1000000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	<b>1290</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>70</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>275 - 330</b>	°C	-
Mold temperature	<b>60 - 85</b>	°C	-
Zone 1	<b>260 - 300</b>	°C	-
Zone 2	<b>270 - 310</b>	°C	-
Zone 3	<b>280 - 320</b>	°C	-
Screw speed	<b>30 - 63</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

### Characteristics

#### Processing

Injection Molding

#### Special Characteristics

Flame retardant

#### Certifications

Recycled Resin Content

#### Applications

IT / Business Machine, Electrical and Electronical

#### Regional Availability

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