

Product Texts

LNP THERMOCOMP DC006ER compound is based on Polycarbonate (PC) resin containing 30% carbon fiber. Added features of this grade include: Easy Molding, Mold Release, Electrically Conductive.

UL Yellow Card Link [E207780-101283808](https://www.ul.com/yellow-card/E207780-101283808)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.35	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	16700	MPa	ISO 527
Stress at break	148	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	16500	MPa	ISO 178
Flexural strength	226	MPa	ISO 178
Izod impact strength, +23°C, 4mm	32	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	19580	MPa	ASTM D 638
Tensile Strength at Break	150	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	14540	MPa	ASTM D 790
Flexural Strength	220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	480	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	140	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thckn. Thickness tested	V-1 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	141	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.21	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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

Special Characteristics

Increased electrical conductivity