

**Product Texts**

LNP THERMOCOMP LC006 compound is based on Polyetheretherketone (PEEK) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E121562-101284441](https://www.ul.com/yellow-card/E121562-101284441)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	24100	MPa	ISO 527
Stress at break	230	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus	24300	MPa	ISO 178
Flexural strength	346	MPa	ISO 178
Izod impact strength, +23°C, 4mm	44	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	30750	MPa	ASTM D 638
Tensile Strength at Break	225	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	20200	MPa	ASTM D 790
Flexural Strength	325	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	608	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	300	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	298	°C	ASTM D 648
DTUL @ 264 psi	298	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1400	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1410	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Mold temperature	175 - 190	°C	-
Zone 1	370 - 380	°C	-
Zone 2	380 - 400	°C	-
Zone 3	380 - 400	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Special Characteristics**

Increased electrical conductivity