

**Product Texts**

LNP THERMOCOMP EC006 compound is based on Polyetherimide (PEI) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E207780-101282611](https://www.ul.com/yellow-card/E207780-101282611)

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	0.2	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	20200	MPa	ISO 527
Stress at break	183	MPa	ISO 527
Strain at break	1.1	%	ISO 527
Flexural modulus	17900	MPa	ISO 178
Flexural strength	269	MPa	ISO 178
Izod impact strength, +23°C, 4mm	26	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	19440	MPa	ASTM D 638
Tensile Strength at Break	196	MPa	ASTM D 638
Elongation at Break	1.3	%	ASTM D 638
Flexural Modulus	18170	MPa	ASTM D 790
Flexural Strength	280	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	373	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	217	°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 @ 264 psi	217	°C	ASTM D 648

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

Other properties	Value	Unit	Test Standard
Humidity absorption	0.28	%	Sim. to ISO 62
Density	1380	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.19	%	ASTM D 570
Density	1390	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	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 400	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	360 - 400	°C	-
Zone 2	370 - 390	°C	-

Zone 3	<b>380 - 400</b>	°C	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Increased electrical conductivity

**Regional Availability**

Asia Pacific