

**Product Texts**

LNP THERMOCOMP WC003 compound is based on Polybutylene Terephthalate (PBT) resin containing 15% carbon fiber. Added features of this grade include: Electrically Conductive.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>11400</b>	MPa	ISO 527
Stress at break	<b>136</b>	MPa	ISO 527
Strain at break	<b>1.9</b>	%	ISO 527
Flexural modulus	<b>9600</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>25</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>4</b>	kJ/m <sup>2</sup>	ISO 180/1A

<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	<b>206</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>224</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>16</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>116</b>	E-6/K	ISO 11359-1/-2

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	<b>10000</b>	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1360</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.05</b>	%	-
Melt temperature	<b>240 - 265</b>	°C	-
Mold temperature	<b>80 - 100</b>	°C	-
Zone 1	<b>220 - 230</b>	°C	-
Zone 2	<b>245 - 255</b>	°C	-
Zone 3	<b>260 - 270</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Increased electrical conductivity

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific