

**Product Texts**

LNP THERMOCOMP LC006EX1 compound is based on Polyetheretherketone (PEEK) resin containing 30% carbon fiber. Added features of this grade include: High Modulus, High impact, Easy Molding, Electrical Conductive.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>29200</b>	MPa	ISO 527
Stress at break	<b>267</b>	MPa	ISO 527
Strain at break	<b>1.7</b>	%	ISO 527
Flexural modulus	<b>25400</b>	MPa	ISO 178
Flexural strength	<b>412</b>	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	<b>55</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	<b>8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	<b>56</b>	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	<b>10</b>	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	<b>26500</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>276</b>	MPa	ASTM D 638
Elongation at Break	<b>1.7</b>	%	ASTM D 638
Flexural Modulus	<b>21300</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>97</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>860</b>	J/m	ASTM D 256

<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>322</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>337</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>338</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>329</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water Absorption, 24hr	<b>0.052</b>	%	ASTM D 570
Density	<b>1420</b>	kg/m <sup>3</sup>	ASTM D 792

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

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific