

**Product Texts**

LNP THERMOCOMP LF008EX1 compound is based on Polyetheretherketone (PEEK) resin containing 40% glass fiber. Added features of this grade include: High Modulus and Strength, Easy Molding and Low Warpage.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.25	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	13800	MPa	ISO 527
Stress at break	193	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	12700	MPa	ISO 178
Flexural strength	265	MPa	ISO 178
Charpy impact strength, +23°C	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	58	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	14000	MPa	ASTM D 638
Tensile Strength at Break	190	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	12300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	134	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	873	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	310	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	336	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	337	°C	ASTM D 648
DTUL @ 264 psi	315	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1620	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	380 - 400	°C	-
Mold temperature	170 - 200	°C	-
Zone 1	290 - 300	°C	-
Zone 2	360 - 370	°C	-
Zone 3	370 - 380	°C	-
Screw speed	50 - 100	rpm	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific