

**Product Texts**

LNP THERMOCOMP LF008 compound is based on Polyetheretherketone (PEEK) resin containing 40% glass fiber. Added features of this grade include: High Modulus and Strength.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	12800	MPa	ISO 527
Yield stress	156	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	10400	MPa	ISO 178
Flexural strength	240	MPa	ISO 178
Izod impact strength, +23°C, 4mm	53	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	13780	MPa	ASTM D 638
Tensile Strength at Break	154	MPa	ASTM D 638
Elongation at Yield	2.4	%	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	9650	MPa	ASTM D 790
Flexural Strength	234	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	811	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	261	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	1610	kg/m <sup>3</sup>	ISO 1183
Density	1610	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	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	380 - 390	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	350 - 360	°C	-
Zone 2	365 - 375	°C	-
Zone 3	380 - 395	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific