

Product Texts

LNP THERMOCOMP LF004E1 compound is based on Polyetheretherketone (PEEK) resin containing 20% glass fiber. Added features of this grade include: Easy Molding and Low Warpage

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8900	MPa	ISO 527
Stress at break	135	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	7400	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Charpy impact strength, +23°C	42	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	8.1	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	36	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	8800	MPa	ASTM D 638
Tensile Strength at Break	140	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	7300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	70	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	560	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	305	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	330	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	330	°C	ASTM D 648
DTUL @ 264 psi	300	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1430	kg/m ³	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