

Product Texts

LNP THERMOCOMP LCF62E compound is based on Polyetheretherketone (PEEK) resin containing 10% carbon fiber and 30% glass fiber. Added features of this grade include: Easy Molding, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.04	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	41100	MPa	ISO 527
Stress at break	196	MPa	ISO 527
Strain at break	0.7	%	ISO 527
Flexural modulus	36500	MPa	ISO 178
Flexural strength	391	MPa	ISO 178
Izod impact strength, +23°C, 4mm	47	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	62980	MPa	ASTM D 638
Tensile Strength at Break	203	MPa	ASTM D 638
Elongation at Break	0.8	%	ASTM D 638
Flexural Modulus	17340	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	711	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	290	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	290	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	290	°C	ASTM D 648
DTUL @ 264 psi	290	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1570	kg/m ³	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

Europe

Special Characteristics

Increased electrical conductivity