

Product Texts

LNP THERMOCOMP EC006E compound is based on Polyetherimide (PEI) resin containing 30% carbon fiber. Added features of this grade include: Easy Molding, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18500	MPa	ISO 527
Stress at break	215	MPa	ISO 527
Strain at break	1.3	%	ISO 527
Flexural modulus	20800	MPa	ISO 178
Flexural strength	306	MPa	ISO 178
Izod impact strength, +23°C, 4mm	34	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	23300	MPa	ASTM D 638
Tensile Strength at Break	230	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	19160	MPa	ASTM D 790
Flexural Strength	314	MPa	ASTM D 790

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	208	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	206	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.25	%	Sim. to ISO 62
Density	1390	kg/m ³	ISO 1183
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1390	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 400	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	360 - 380	°C	-
Zone 2	370 - 390	°C	-
Zone 3	380 - 400	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity