

Product Texts

LNP THERMOCOMP QC006 compound is based on Nylon 6/10 resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18700	MPa	ISO 527
Stress at break	196	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	15200	MPa	ISO 178
Izod impact strength, +23°C, 4mm	62	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	221	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	7.4	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	95	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1220	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Special Characteristics

Increased electrical conductivity