

Product Texts

LNP THERMOCOMP EX93452 compound is based on Polyetherimide (PEI) resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18500	MPa	ISO 527
Stress at break	205	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus	17100	MPa	ISO 178
Izod impact strength, +23°C, 4mm	29	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	19860	MPa	ASTM D 638
Tensile Strength at Break	214	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	16500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	52	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	467	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	214	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	219	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	27	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	29	E-6/K	ASTM D 696
DTUL @ 66 psi	219	°C	ASTM D 648
DTUL @ 264 psi	214	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.24	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	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

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America