

Product Texts

LNP LUBRICOMP LCL36E compound is based on Polyetheretherketone (PEEK) resin containing 30% carbon fiber and 15% PTFE. Added features of this grade include: Easy Molding, Wear Resistant, Electrically Conductive.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	21600	MPa	ISO 527
Stress at break	224	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	19800	MPa	ISO 178
Izod impact strength, +23°C, 4mm	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	300	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	8.4	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	42	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	1500	kg/m ³	ISO 1183

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