

**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.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.31	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.81	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	17500	MPa	ISO 527
Stress at break	140	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	22700	MPa	ISO 178
Flexural strength	321	MPa	ISO 178
Izod impact strength, +23°C, 4mm	40	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	21440	MPa	ASTM D 638
Tensile Strength at Break	208	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	23000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	83	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	651	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	329	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	342	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	14	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	29	E-6/K	ASTM D 696
DTUL @ 66 psi	342	°C	ASTM D 648
DTUL @ 264 psi	332	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Water Absorption, 24hr	0.04	%	ASTM D 570
Density	1510	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Mold temperature	175 - 190	°C	-
Zone 1	370 - 380	°C	-
Zone 2	380 - 400	°C	-
Zone 3	380 - 400	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Special Characteristics**

Increased electrical conductivity