

**Product Texts**

LNP LUBRICOMP LL002 compound is based on Polyetheretherketone (PEEK) resin containing 10% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3280	MPa	ISO 527
Yield stress	76	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	73	MPa	ISO 527
Strain at break	17.8	%	ISO 527
Flexural modulus	3120	MPa	ISO 178
Flexural strength	103	MPa	ISO 178
Izod impact strength, +23°C, 4mm	158	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	3330	MPa	ASTM D 638
Tensile Strength at Yield	77	MPa	ASTM D 638
Tensile Strength at Break	79	MPa	ASTM D 638
Elongation at Yield	5.3	%	ASTM D 638
Elongation at Break	52	%	ASTM D 638
Flexural Modulus	3070	MPa	ASTM D 790
Izod Impact notched, 1/8 in	84	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2990	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	149	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	155	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	166	°C	ASTM D 648
DTUL @ 264 psi	149	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1370	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1370	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, Europe, Asia Pacific