

**Product Texts**

LNP LUBRICOMP 5CL23 compound is based on Polyvinylidene Fluoride (PVDF) resin containing 15% carbon fiber, 10% PTFE. Added features of this grade include: Wear Resistant, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	14500	MPa	ISO 527
Stress at break	77	MPa	ISO 527
Strain at break	0.7	%	ISO 527
Flexural modulus	11900	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Izod impact strength, +23°C, 4mm	13	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	15780	MPa	ASTM D 638
Tensile Strength at Break	84	MPa	ASTM D 638
Elongation at Break	0.8	%	ASTM D 638
Flexural Modulus	12500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	55	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	201	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	158	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	166	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	21.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	84.1	E-6/K	ASTM D 696
DTUL @ 66 psi	168	°C	ASTM D 648
DTUL @ 264 psi	164	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Water Absorption, 24hr	0.03	%	ASTM D 570
Density	1840	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Melt temperature	215 - 230	°C	-
Mold temperature	65 - 90	°C	-
Zone 1	190 - 210	°C	-
Zone 2	210 - 225	°C	-
Zone 3	225 - 245	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity