

Product Texts

LNP LUBRICOMP SCL36 compound is based on Nylon 12 resin containing 15% PTFE, 30% carbon fiber. Added features of this grade include: Wear Resistant, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	19400	MPa	ISO 527
Stress at break	130	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	16500	MPa	ISO 178
Flexural strength	206	MPa	ISO 178
Izod impact strength, +23°C, 4mm	39	kJ/m ²	ISO 180/1U
ASTM Data			
Tensile Modulus	21400	MPa	ASTM D 638
Tensile Strength at Break	157	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	15800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	129	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	686	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	170	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	177	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	29	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	63	E-6/K	ASTM D 696
DTUL @ 66 psi	178	°C	ASTM D 648
DTUL @ 264 psi	173	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.14	%	Sim. to ISO 62
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	225 - 240	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	215 - 225	°C	-
Zone 2	220 - 230	°C	-
Zone 3	225 - 240	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America