

Product Texts

LNP LUBRICOMP SCP36 compound is based on Nylon 12 resin containing 30% carbon fiber, 15% PTFE/silicone. Added features of this grade include: Wear Resistant, Electrically Conductive.

UL Yellow Card Link [E207780-101282600](https://www.ul.com/yellow-card/E207780-101282600)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.1	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	18200	MPa	ISO 527
Stress at break	122	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	16000	MPa	ISO 178
Izod impact strength, +23°C, 4mm	34	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Flexural Modulus	16200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	82	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	508	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	169	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	177	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	32	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	41	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	0.24	%	Sim. to ISO 62
Water Absorption, 24hr	0.16	%	ASTM D 570
Density	1260	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	60 - 85	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 270	°C	-
Zone 3	260 - 280	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific