

Product Texts

LNP LUBRICOMP RCP36 compound is based on Nylon 6/6 resin containing 30% carbon fiber, 15% PTFE/silicone. Added features of this grade include: Electrically Conductive, Wear Resistant.

UL Yellow Card Link [E121562-101281618](https://www.ul.com/yellow-card/E121562-101281618)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	23100	MPa	ISO 527
Stress at break	228	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	21300	MPa	ISO 178
Flexural strength	354	MPa	ISO 178
Izod impact strength, +23°C, 4mm	65	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	29500	MPa	ASTM D 638
Tensile Strength at Break	201	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	16400	MPa	ASTM D 790
Flexural Strength	333	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	945	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	240	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thic kn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	254	°C	ASTM D 648
DTUL @ 264 psi	244	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.35	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183
Water Absorption, 24hr	0.93	%	ASTM D 570
Density	1340	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	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America

Special Characteristics

Increased electrical conductivity