

Product Texts

LNP LUBRICOMP DCP36 compound is based on Polycarbonate (PC) resin containing 30% carbon fiber, 15% PTFE/silicone. Added features of this grade include: Wear Resistant, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.17	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15300	MPa	ISO 527
Stress at break	120	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	13800	MPa	ISO 178
Flexural strength	183	MPa	ISO 178
Izod impact strength, +23°C, 4mm	23	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	16260	MPa	ASTM D 638
Tensile Strength at Break	111	MPa	ASTM D 638
Elongation at Break	1.2	%	ASTM D 638
Flexural Modulus	13400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	91	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	456	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	140	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	5	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	31	E-6/K	ASTM D 696
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	137	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1400	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°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