

Product Texts

LNP LUBRICOMP DCL329XZ compound is based on Polycarbonate (PC) resin containing 10% carbon fiber and 15% PTFE. Added features of this grade include: Electrically Conductive, Flame Retardant, Wear Resistant.

UL Yellow Card Link [E207780-101343855](https://www.ul.com/yellow-card/E207780-101343855)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.15	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7300	MPa	ISO 527
Stress at break	94	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	7300	MPa	ISO 178
Flexural strength	139	MPa	ISO 178
Izod impact strength, +23°C, 4mm	22	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7170	MPa	ASTM D 638
Tensile Strength at Break	91	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	6480	MPa	ASTM D 790
Flexural Strength	138	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	315	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	138	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	139	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.14	%	Sim. to ISO 62
Density	1360	kg/m ³	ISO 1183
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1360	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

Additives

Flame retarding agent

Special Characteristics

Increased electrical conductivity, Flame retardant

Regional Availability

North America, Europe, Asia Pacific