

Product Texts

LNP ELCRIN DI001EXG compound is based on Polycarbonate (PC) resin containing silicone. Major component synthesized from bio source. Renewable content certified by ISCC+ mass balance methodology. Added features of this grade include: Internally Lubricated, Easy Molding, Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	5.5	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Izod impact strength, +23°C	165	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	40	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	72	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	72	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 315	°C	-
Mold temperature	80 - 119	°C	-
Zone 1	295 - 305	°C	-
Zone 2	305 - 315	°C	-
Zone 3	310 - 320	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Lubricants

Certifications

Contains renewable resources, ISCC Plus

Applications

Building Construction, IT / Business Machine, Electrical and Electronical, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific, South and Central America