

Product Texts

LNP ELCRES SLX1462T is based on Polycarbonate (PC) siloxane copolymer resin. It is an injection moldable, weatherable product that offers enhanced UV stabilization, improved scratch resistance and chemical resistance performance. Targeted for potential paint elimination through a wide range of transparent or opaque colors. SLX1462T is targeted for a broad range of automotive, electrical, consumer, and electronics applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0059	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2370	MPa	ISO 527
Stress at break	70	MPa	ISO 527
Strain at break	84	%	ISO 527
Flexural modulus, 23°C	2440	MPa	ISO 178
Flexural strength	105	MPa	ISO 178
Charpy impact strength, +23°C	102	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	28	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	142	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	19.1	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2366	MPa	ASTM D 638
Tensile Strength at Break	65	MPa	ASTM D 638
Elongation at Break	66	%	ASTM D 638
Flexural Modulus	2440	MPa	ASTM D 790
Flexural Strength	114	MPa	ASTM D 790
Izod Impact notched, 1/8 in	688	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2130	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	114	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	133	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	71	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	72	E-6/K	ASTM D 696
DTUL @ 66 psi	126	°C	ASTM D 648
DTUL @ 264 psi	114	°C	ASTM D 648
Vicat Temperature	140	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1310	kg/m ³	ISO 1183
Density	1310	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	4 - 6	h	-

Melt temperature	280 - 320	°C	-
Mold temperature	50 - 110	°C	-
Zone 1	260 - 300	°C	-
Zone 2	270 - 310	°C	-
Zone 3	280 - 320	°C	-
Nozzle temperature	280 - 320	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather, Transparent, Opaque

Features

Scratch Resistant, Copolymer

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

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