

**Product Texts**

LNP ELCRES SLX1271D is a low viscosity, weatherable polycarbonate copolymer blend with enhanced UV stabilization available in diffusive colors. It offers the potential for selective plating on PC/ABS in intricate geometries via a 2K molding process. The material is an ideal material for automotive exterior applications.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2260	MPa	ISO 527
Yield stress	66	MPa	ISO 527
Yield strain	6.2	%	ISO 527
Stress at break	68	MPa	ISO 527
Strain at break	115	%	ISO 527
Flexural modulus, 23°C	2250	MPa	ISO 178
Flexural strength	97	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	7	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Puncture energy, +23°C	110	J	ISO 6603-2
Puncture energy, -30°C	108	J	ISO 6603-2
<b>ASTM Data</b>			
Tensile Modulus	2292	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	62	MPa	ASTM D 638
Elongation at Yield	6.3	%	ASTM D 638
Elongation at Break	83	%	ASTM D 638
Flexural Modulus	2480	MPa	ASTM D 790
Flexural Strength	98	MPa	ASTM D 790
Izod Impact notched, 1/8 in	239	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	98	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	123	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
Vicat softening temperature, B	138	°C	ISO 306
Coeff. of linear therm. expansion, parallel	71	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	72	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
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	133	°C	ASTM D 648
DTUL @ 264 psi	123	°C	ASTM D 648
Vicat Temperature	138	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.32	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1210	kg/m <sup>3</sup>	ISO 1183
Density	1200	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 310	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	270 - 290	°C	-

## Characteristics

### Processing

Injection Molding

### Special Characteristics

Platable, U.V. stabilized or stable to weather

### Features

Copolymer

### Applications

Automotive, Electrical and Electronical

### Regional Availability

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