

Product Texts

LNP ELCRES SLX2271AML is based on Polycarbonate (PC) siloxane copolymer resin. It is an antimicrobial compound available in transparent and tinted colors. Added features of this grade include: Good Weatherability and Scratch Resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2380	MPa	ISO 527
Yield stress	61.6	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	62	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2490	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	13.6	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	9.2	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	13.5	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	9.3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2368	MPa	ASTM D 638
Tensile Strength at Yield	61.9	MPa	ASTM D 638
Tensile Strength at Break	61.3	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	93	%	ASTM D 638
Flexural Modulus	2360	MPa	ASTM D 790
Izod Impact notched, 1/8 in	119	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	89.5	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	141	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	141	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	121	°C	ASTM D 648
Vicat Temperature	140	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	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	-
Feed temperature	60 - 80	°C	-

Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 310	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Transparent