

Product Texts

LNP ELCRES CRX9411 is an amorphous Polycarbonate (PC) copolymer resin that offers medium flow, UL V0 rating @ 1.6 mm for all colors, and high ductility in combination with excellent chemical resistance. This grade is available for custom coloring and may be an excellent candidate for a wide variety of applications that need improved chemical resistance.

UL Yellow Card Link [F121562-104302666](https://www.ul.com/yellow-card-link/F121562-104302666)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	1860	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	57	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2010	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	65	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	55	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1920	MPa	ASTM D 638
Tensile Strength at Yield	52	MPa	ASTM D 638
Tensile Strength at Break	59	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	765	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	680	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	123	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
Vicat softening temperature, B	142	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	144	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
ASTM Data			
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	125	°C	ASTM D 648
Vicat Temperature	142	°C	ASTM D 1525
Other properties			
Density	1190	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	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 340	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	270 - 320	°C	-
Zone 2	280 - 330	°C	-
Zone 3	290 - 340	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Chemical Resistance

General Chemical Resistance