

**Product Texts**

LNP ELCRES CRX1414 is an amorphous Polycarbonate (PC) copolymer resin that offers medium flow, 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.

[E121562-104297933](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	52	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	61	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2060	MPa	ISO 178
Flexural strength	83	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	70	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	63	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2020	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	63	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2170	MPa	ASTM D 790
Izod Impact notched, 1/8 in	875	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	777	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
<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	136	°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 thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	125	°C	ASTM D 648
Vicat Temperature	143	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1190	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	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