

**Product Texts**

LNP ELCRES CRX9421U is a UV stabilized semi-crystalline Polycarbonate (PC) copolymer/Polybutylene Terephthalate (PBT) opaque blend. This grade offers medium flow, UL V0 rating @ 1.5 mm, and high ductility in combination with excellent chemical resistance. CRX9421U is available for custom coloring and maybe an excellent candidate for a wide variety of applications that need improved chemical resistance.

UL Yellow Card Link: [E121562-104591350](https://www.ul.com/yellow-card/E121562-104591350)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0145	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.014	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2040	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	100	%	ISO 527
Flexural modulus, 23°C	2050	MPa	ISO 178
Izod impact strength, +23°C	255	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	55	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	13	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	1984	MPa	ASTM D 638
Tensile Strength at Yield	44	MPa	ASTM D 638
Tensile Strength at Break	36	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	59	%	ASTM D 638
Flexural Modulus	1985	MPa	ASTM D 790
Izod Impact notched, 1/8 in	590	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	150	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	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	115	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	85	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	105	E-6/K	ASTM D 696
DTUL @ 66 psi	118	°C	ASTM D 648
DTUL @ 264 psi	66	°C	ASTM D 648
Vicat Temperature	131	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1300	kg/m <sup>3</sup>	ISO 1183

Density	1300	kg/m <sup>3</sup>	ASTM D 792
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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	240 - 255	°C	-
Mold temperature	50 - 70	°C	-
Zone 1	225 - 240	°C	-
Zone 2	230 - 245	°C	-
Zone 3	235 - 250	°C	-
Nozzle temperature	240 - 255	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

## Characteristics

### Processing

Injection Molding

### Special Characteristics

Flame retardant, High impact or impact modified, U.V. stabilized or stable to weather, Opaque

### Features

Ductile, Copolymer

### Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance

### Applications

Medical

### Regional Availability

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