

Product Texts

LNP ELCRES CRX5421 is a semi-crystalline Polycarbonate (PC) copolymer/Polybutylene Terephthalate (PBT) opaque blend. This resin 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.

[E121562-104427473](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1850	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	4	%	ISO 527
Strain at break	50	%	ISO 527
Izod notched impact strength, +23°C, 4mm	53	kJ/m ²	ISO 180/1A
Izod notched impact strength, +23°C, 3mm	54	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1820	MPa	ASTM D 638
Tensile Strength at Yield	42	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	1980	MPa	ASTM D 790
Izod Impact notched, 1/8 in	645	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	180	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
DTUL @ 66 psi	123	°C	ASTM D 648
DTUL @ 264 psi	64	°C	ASTM D 648
Vicat Temperature	129	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1300	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	240 - 255	°C	-
Mold temperature	50 - 70	°C	-
Zone 1	225 - 240	°C	-
Zone 2	230 - 245	°C	-
Zone 3	235 - 250	°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