

**Product Texts**

LNP ELCRIN EXL8483RCC is based on Polycarbonate (PC) siloxane copolymer resin. Added features of this grade include: Medium Flow, Colorable and minimum 75% Post Consumer Recycle (PCR) content. This grade is suitable for applications that require improved aesthetics and wider color space to overcome restricted color space of traditional PCR grades.

UL Yellow Card Link [E207780-104440321](https://www.ulprospector.com/usa/Products/Plastics/PC/104440321)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	13	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6.2	%	ISO 527
Stress at break	68	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2300	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Charpy impact strength, +23°C	125	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	37	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	137	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	32	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength at Yield	61.8	MPa	ASTM D 638
Tensile Strength at Break	61.6	MPa	ASTM D 638
Elongation at Yield	6.3	%	ASTM D 638
Elongation at Break	116	%	ASTM D 638
Flexural Modulus	2260	MPa	ASTM D 790
Izod Impact notched, 1/8 in	750	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1730	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, B	144	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	146	°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	140	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	144	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1190	kg/m <sup>3</sup>	ISO 1183
Density	1190	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>295 - 315</b>	°C	-
Mold temperature	<b>70 - 95</b>	°C	-
Zone 1	<b>270 - 295</b>	°C	-
Zone 2	<b>280 - 305</b>	°C	-
Zone 3	<b>295 - 315</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Certifications**

Recycled Resin Content