

Product Texts

LNP ELCRIN EXL8423RCC is based on Polycarbonate (PC) siloxane copolymer resin. Added features of this grade include: Medium Flow, Colorable, Low Temperature Ductility and 20% 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 [F207780-104400893](https://www.ul.com/yellow-card-link/F207780-104400893)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	12	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
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2170	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Charpy impact strength, +23°C	307	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	74	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	230	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	69	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2100	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	117	%	ASTM D 638
Flexural Modulus	2200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	930	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2540	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
Vicat softening temperature, B	144	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	145	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
ASTM Data			
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	145	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

Density	1190	kg/m ³	ASTM D 792
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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Processing humidity	≤0.02	%	-
Melt temperature	270 - 295	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	290 - 310	°C	-
Zone 2	295 - 315	°C	-
Zone 3	280 - 305	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Certifications

Recycled Resin Content