

Product Texts

LNP ELCRIN EXL8543RCC is based on Polycarbonate (PC) siloxane copolymer resin. Added features of this grade include: Medium Flow, Colorable and 40% 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 [F207780-104400894](https://www.ul.com/yellow-card-link/F207780-104400894)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	17	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2130	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	6.2	%	ISO 527
Stress at break	62	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2280	MPa	ISO 178
Flexural strength	91	MPa	ISO 178
Charpy impact strength, +23°C	330	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	59	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	18	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	237	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	52	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	16	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2070	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	63	MPa	ASTM D 638
Elongation at Yield	6.4	%	ASTM D 638
Elongation at Break	130	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	770	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	190	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	2700	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°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	0.5	mm	-
ASTM Data			
DTUL @ 66 psi	139	°C	ASTM D 648
DTUL @ 264 psi	126	°C	ASTM D 648
Vicat Temperature	142	°C	ASTM D 1525
Other properties			
Density	1230	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	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°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