

Product Texts

LNP ELCRIN DX11355RC compound is based on recycled Polycarbonate (PC) resin containing proprietary additives and available in black color only. Added features of this grade include: Improved Plating Surface and Mechanical Performance targeted for Laser Direct Structuring (LDS) applications, Improved Impact, Non-Brominated, Non-Chlorinated Flame Retardant. Post-Consumer Recycling (PCR) Polycarbonate content up to 50%.

UL Yellow Card Link: [E207780-104623820](https://www.ul.com/yellow-card/E207780-104623820)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2680	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	45	%	ISO 527
Flexural modulus, 23°C	2620	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	100	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	817	kJ/m ²	ISO 180/1A
Izod notched impact strength	20	kJ/m ²	ISO 180/1A
Temperature	-20	°C	-
ASTM Data			
Tensile Modulus	2680	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	53	MPa	ASTM D 638
Elongation at Yield	4.7	%	ASTM D 638
Elongation at Break	55	%	ASTM D 638
Flexural Modulus	2480	MPa	ASTM D 790
Flexural Strength	91	MPa	ASTM D 790
Izod Impact notched, 1/8 in	817	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.7	mm	-
Coefficient of Thermal Expansion, MD	63	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70	E-6/K	ASTM D 696
DTUL @ 66 psi	130	°C	ASTM D 648
DTUL @ 264 psi	117	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1270	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 315	°C	-
Mold temperature	60 - 90	°C	-
Zone 1	260 - 290	°C	-
Zone 2	265 - 305	°C	-
Zone 3	270 - 310	°C	-
Nozzle temperature	280 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Delivery form

Black

Special Characteristics

Flame retardant, Halogen-free, High impact or impact modified

Certifications

Recycled Resin Content

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

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