

Product Texts

LNP ELCRIN 61000iQ compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend utilizing ELCRIN iQ upcycling technology containing minimum 22% Post-Consumer Recycling (PCR) weight content. Added features of this grade include: Impact Modified, Excellent Low Temperature Impact, Chemical Resistant, Colorable.

UL Yellow Card Link [E207780-100803460](https://www.ul.com/yellow-card/E207780-100803460)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	13	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	1950	MPa	ISO 527
Yield stress	49	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1920	MPa	ISO 178
Charpy notched impact strength, +23°C	55	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	55	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	47	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2050	MPa	ASTM D 638
Tensile Strength at Yield	45	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	140	%	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	650	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	600	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	99	°C	ASTM D 648
DTUL @ 264 psi	75	°C	ASTM D 648
Other properties			
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	255 - 275	°C	-
Mold temperature	40 - 90	°C	-

Zone 1	240 - 260	°C	-
Zone 2	245 - 265	°C	-
Zone 3	250 - 270	°C	-
Screw speed	40 - 80	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Certifications

Recycled Resin Content

Special Characteristics

High impact or impact modified

Applications

Automotive

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific