

**Product Texts**

LNP ELCRIN 610009UXiQ compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend, utilizing ELCRIN iQ upcycling technology containing minimum 19% Post-Consumer Recycling (PCR) weight content. Added features of this grade include: Flame Retardant, UL746C F1 Rating, UL94 V0 and 5VA Flame Rating, UV Resistant, Impact Modified, Excellent Chemical Resistance. This is a good candidate for applications in the electrical industry including bobbins, switches, and enclosures.

UL Yellow Card Link [E45329-104207638](https://www.ul.com/yellow-card/E45329-104207638)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	7	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	9.3	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2190	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	4.6	%	ISO 527
Stress at break	40	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2050	MPa	ISO 178
Charpy notched impact strength, +23°C	34	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	31	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	48	MPa	ASTM D 638
Tensile Strength at Break	41	MPa	ASTM D 638
Elongation at Yield	4.9	%	ASTM D 638
Elongation at Break	74	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	490	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	167	J/m	ASTM D 256
Temperature	-30	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 0.45 MPa	122	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.6	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	127	°C	ASTM D 648
<b>Other properties</b>			
Water absorption	0.08	%	Sim. to ISO 62
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1340	kg/m <sup>3</sup>	ISO 1183
Density	1350	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-

Processing humidity	≤0.02	%	-
Melt temperature	250 - 265	°C	-
Mold temperature	50 - 75	°C	-
Zone 1	240 - 255	°C	-
Zone 2	245 - 260	°C	-
Zone 3	250 - 265	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant, High impact or impact modified

**Chemical Resistance**

General Chemical Resistance

**Certifications**

Recycled Resin Content

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific