

**Product Texts**

LNP ELCRIN W10001iQ compound is based on Polybutylene terephthalate (PBT) resin utilizing ELCRIN iQ upcycling technology containing minimum 44% Post-Consumer Recycling (PCR) weight content. Added features of this grade include: Non-Chlorinated, Non-Brominated Flame Retardant, Excellent Chemical Resistance and UL94V0 Flame Rating. This is a good candidate for a variety of applications needing a more sustainable FR and PBT solution.

UL Yellow Card Link [E207780-639217](https://www.ul.com/yellow-card/E207780-639217)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	20	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2740	MPa	ASTM D 638
Tensile Strength at Break	41	MPa	ASTM D 638
Elongation at Break	10	%	ASTM D 638
Flexural Modulus	2430	MPa	ASTM D 790
Izod Impact unnotched, 1/8 in	550	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	150	°C	ASTM D 648
DTUL @ 264 psi	55	°C	ASTM D 648
Vicat Temperature	208	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1310	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	245 - 260	°C	-
Mold temperature	40 - 100	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	230 - 240	°C	-
Zone 2	235 - 250	°C	-
Zone 3	240 - 260	°C	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Certifications**

Recycled Resin Content

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific

**Chemical Resistance**

General Chemical Resistance