

Product Texts

LNP ELCRIN 61000EUiq2 (also known as ELCRIN ER011566) is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) alloy, utilizing iQ PBT generation 2 technology with 23% post consumer recycled content. Added features of this material include: excellent low temperature impact strength, improve retention of mechanical properties under UV exposure, good surface aesthetics, good chemical resistance.

UL Yellow Card Link [E207780-103938363](https://www.ul.com/yellow-card/E207780-103938363)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1980	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	76	MPa	ISO 178
Charpy notched impact strength, +23°C	60	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	56	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2000	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	140	%	ASTM D 638
Flexural Modulus	2010	MPa	ASTM D 790
Izod Impact notched, 1/8 in	740	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	420	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	79	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	101	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	107	°C	ASTM D 648
DTUL @ 264 psi	84	°C	ASTM D 648
Vicat Temperature	118	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1230	kg/m ³	ISO 1183
Density	1240	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	245 - 270	°C	-

Mold temperature	65 - 90	°C	-
Zone 1	245 - 270	°C	-
Zone 2	245 - 270	°C	-
Zone 3	245 - 270	°C	-
Screw speed	50 - 80	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Certifications

Recycled Resin Content

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific