

Product Texts

LNP ELCRIN 6F006iQ2 (also known as ER015808) utilizing ELCRIN iQ generation 2 upcycling technology, is a 30% glass reinforced, impact modified thermoplastic PC/iQ PBT based compound. The grade contains a minimum of 23% PCR by weight, improved toughness and ductility.

UL Yellow Card [E207780-104547073](https://www.ulprospector.com/usa/Products/Plastics/6F006iQ2)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	18	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8120	MPa	ISO 527
Yield stress	100	MPa	ISO 527
Stress at break	100	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus, 23°C	7680	MPa	ISO 178
Flexural strength	155	MPa	ISO 178
Izod impact strength, +23°C	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	15	kJ/m ²	ISO 180/1A
Izod notched impact strength	9	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	8070	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	7515	MPa	ASTM D 790
Izod Impact notched, 1/8 in	140	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	90	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	775	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	172	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	213	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	20	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	13	E-6/K	ASTM D 696
DTUL @ 66 psi	215	°C	ASTM D 648
DTUL @ 264 psi	170	°C	ASTM D 648
Vicat Temperature	165	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.09	%	Sim. to ISO 62

LNP™ ELCRIN™ 6F006IiQ2

(PC+PBT)-GF30

Saudi Basic Industries Corporation (SABIC)

Humidity absorption	0.04	%	Sim. to ISO 62
Density	1490	kg/m ³	ISO 1183
Density	1490	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	260 - 280	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	250 - 270	°C	-
Zone 2	255 - 275	°C	-
Zone 3	260 - 280	°C	-
Nozzle temperature	255 - 280	°C	-
Screw speed	50 - 80	rpm	-
Back pressure	0.3 - 0.6	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Features

Ductile, Low Warp

Certifications

Recycled Resin Content

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

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