

## Product Texts

LNP ELCRIN WF006NAiQ2 is an iQ PBT Generation 2 based compound containing 30% glass for NMT applications. Added features of this material include : >25% PCR, high flow, low warpage, high metal bonding strength and good chemical resistance.

UL Yellow Card [E207780-104552483](https://www.ul.com/yellowcard/E207780-104552483)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	8	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0015	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0025	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8290	MPa	ISO 527
Yield stress	111	MPa	ISO 527
Stress at break	110	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus, 23°C	7820	MPa	ISO 178
Izod impact strength, +23°C	70	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	11	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Modulus	8240	MPa	ASTM D 638
Tensile Strength at Break	106	MPa	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	7320	MPa	ASTM D 790
Izod Impact notched, 1/8 in	138	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	95	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	831	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	174	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	216	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	23	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	140	E-6/K	ASTM D 696
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	161	°C	ASTM D 648
Vicat Temperature	158	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1530	kg/m <sup>3</sup>	ISO 1183
Density	1530	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	100 - 160	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 270	°C	-
Zone 3	250 - 270	°C	-
Nozzle temperature	245 - 275	°C	-

## Characteristics

### Processing

Injection Molding

### Additives

Release agent

### Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

### Features

Low Warpage

### Chemical Resistance

General Chemical Resistance

### Certifications

Recycled Resin Content

### Applications

IT / Business Machine, Electrical and Electronical

### Regional Availability

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