

Product Texts

LNP ELCRIN WF008NXPIQ is an iQ PBT/glass fiber compound for nano-molding technology (NMT) application. Added features of this material include: >10% PCR content, high modulus, excellent metal bonding force, good surface quality, high impact, good adhesion and good color stability during anodizing process.

UL Yellow Card Link: [E207780-104595381](https://www.ul.com/yellow-card/E207780-104595381)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	37	cm ³ /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	55	g/10min	ASTM D 1238
Temperature	275	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12800	MPa	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus, 23°C	10800	MPa	ISO 178
Flexural strength	216	MPa	ISO 178
Charpy impact strength, +23°C	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13.4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	52	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	13	kJ/m ²	ISO 180/1A
Izod notched impact strength	12.5	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	12700	MPa	ASTM D 638
Tensile Strength at Break	155	MPa	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	10700	MPa	ASTM D 790
Flexural Strength	216	MPa	ASTM D 790
Izod Impact notched, 1/8 in	135	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	115	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	890	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Vicat softening temperature, B	201	°C	ISO 306
Coeff. of linear therm. expansion, parallel	18	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	63	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.7	mm	-
Coefficient of Thermal Expansion, MD	18	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	59	E-6/K	ASTM D 696
DTUL @ 66 psi	219	°C	ASTM D 648

DTUL @ 264 psi	205	°C	ASTM D 648
Vicat Temperature	203	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1600	kg/m ³	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	250 - 270	°C	-
Mold temperature	100 - 150	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 275	°C	-
Zone 3	250 - 275	°C	-
Nozzle temperature	255 - 275	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified

Features

Color Stability, Good Adhesion

Certifications

Recycled Resin Content

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

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