

UL746G CERTIFIED LNP™ ELCREST™ NPCXL9030L RESIN MEETING PFAS REGULATIONS

ENVIRONMENTAL DURABILITY WITH ENHANCED CHEMICAL RESISTANCE

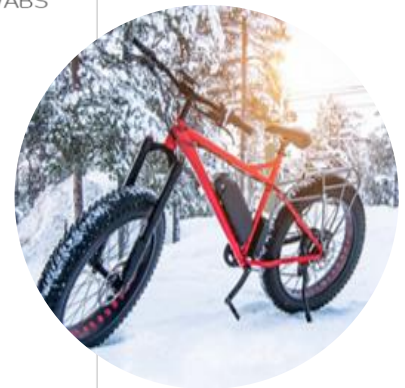
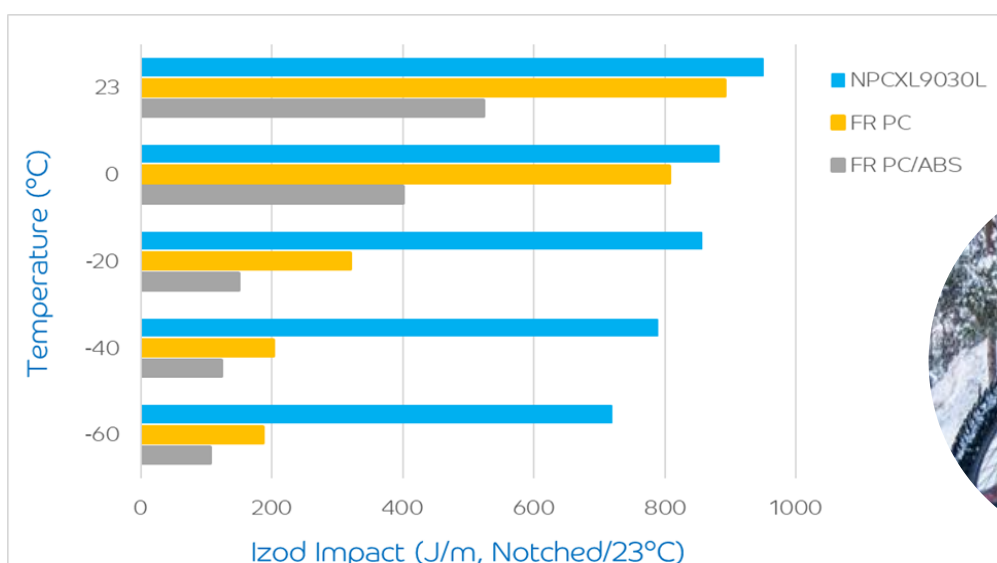
Manufacturers of components used in consumer and industrial markets require durable materials that can meet potential PFAS regulations.

The new UL746G certified LNP ELCRES [NPCXL9030L](#) resin offers chemical resistance in combination with UL 94 V-0 at 1.5mm, ductility at low temperatures, heat / hydro resilience, excellent processability, and is available in custom colors.

These features make [NPCXL9030L](#) a highly suitable candidate for EVSE, connectors, battery housings and any applications that may benefit from a combination of environmental durability and chemical resistance.



ENVIRONMENTAL DURABILITY OF LNP ECLRES NPCXL9030L

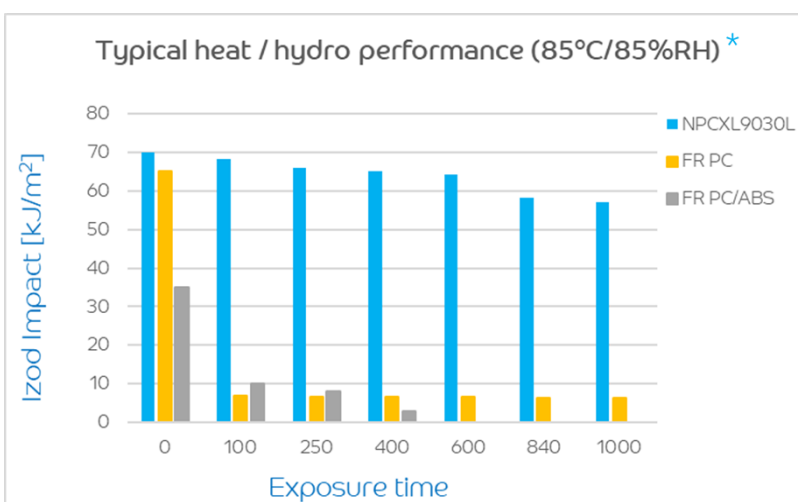


LNP ELCRES [NPCXL9030L](#) offers low temperature ductility down to -60°C and has a UL746C f1 rating indicating the material is suitable for outdoor use because it has passed tests for UV resistance, water exposure, and extreme temperatures.

WEATHERABILITY



Excellent heat/hydro stability for applications such as solar connectors



* The results may depend on the impact norm, thickness, color.

CHEMICAL RESISTANCE



Chemicals pose an increasing risk to plastics used in electronics, mobility, infrastructure, and industrial parts. The popularity of wearable devices and the constant use of smart phones expose electronics to chemicals in lotion, sunscreen, hand sanitizer and strong disinfecting, surface cleaning agents. **NPCXL9030L** exhibits enhanced resistance against a range of chemicals, reducing the risk of premature stress cracking.



SABIC ESC Method: per ASTM D543

Exposure conditions: Strain level: 1.0%; 7 days, 23°C; *5 days; **3 weeks

	Banana Boat® (30 SPF)	Fantastik® Cleaner	Turpentine	DiaCut CP1 (punching oil)
PRODUCT	ϵ_b	ϵ_b	ϵ_b	ϵ_b
FR PC/ABS	■	■	■ *	■ **
FR PC	■	■	■ *	■ **
NPCXL9030L	●	●	●	●

Compatibility
color rating

Elongation at
break retention
 ϵ_b (%)

Compatible

80 – 139

Marginal

65-79

Not
compatible

< 64 or > 140

PROCESSABILITY



Excellent ejection and release performance for injection molding and extrusion processes.



Well-suited for molding of thin wall, complex parts.

CUSTOM COLORS



Color matching to support design or branding needs.




GROWING PORTFOLIO OF UL746G-CERTIFIED MATERIALS MEETING PFAS REGULATIONS

SABIC’s new NP family is certified per UL746G – an outline of investigation for Non-Fluorine and Non-PFAS containing materials. Plus, these materials meet UL94 V-0 ratings at 1.5mm down to 1.0 mm.

Materials that are found to comply with UL746G requirements will be searchable and have the certificates published on their individual recognition cards (Yellow Cards).

The new NP family offers a combination of properties to help meet customer’s challenges across multiple segments such as consumer electronics, healthcare, infrastructure, mobility, and industrial.





Learn more about
UL746G testing.
bit.ly/UL-PFAS-TEST

CUSTOM-COLORABLE UL746G CERTIFIED NP GRADES UNDER THE NEW NP FAMILY NOMENCLATURE

In addition to the [NPCXL9030L](#) resins, the following grades are commercially available.

LN™ ELCRES™ RESINS	UL94 V-0 @ 1.0mm	High flow (MVR 24) Low temp ductility (-40°C)	NPEXL9834
	UL94 V-0 @ 1.5mm	Enhanced resistance to hospital disinfectants	NPCR9612U

MORE DESIGN FREEDOM IN ELECTRONICS

The new LNPT™ ELCRES™ **NPEXL9834** resin brings unprecedented dual certification of UL746G and UL 94 V-0 at an impressive 1.0 mm thickness.

LNP ELCRES NPEXL9834 resin can bring excellent durability and reliability to electronics devices while helping OEMs to address PFAS concerns.



EXCELLENT PROCESSING

High flowability for more design freedom



ROBUST FLAME RETARDANCE

Thin wall UL94 V-0 rating at an impressive 1.0 mm, all colors.



MORE RELIABILITY IN MEDICAL DEVICES

Frequent exposure to aggressive disinfectants can cause environmental stress cracking potentially resulting in premature failure and warranty claims.

The new UL746G certified LNPT™ ELCRES™ **NPCR9612U** resin offers excellent resistance to disinfectants while meeting UL 94 V-0 at 1.5mm.



DISINFECTANT RESISTANCE

Enhanced ESCR to disinfectants used in hospitals



BIO-COMPATIBLE

Bio-compatibility according to parts 5 & 10 of ISO10993



MORE SUSTAINABLE OPTIONS

LNP NP grades can be produced under the LNP™ ELCRIN™ brand as **ISCC+ certified bio-renewable polymers** to help reduce carbon emissions.

These products are part of SABIC's TRUCIRCLE™ portfolio and services for circular solutions. Learn more about sustainable solutions on our website.

SUSTAINABILITY

Lower carbon footprint



EASY TO IMPLEMENT

Potential drop-in solution



Access Technical Data Sheets for
UL746G certified NP grades
bit.ly/NPGrades_UL746G

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SABIC MATERIAL FINDER

Find the right Specialties material
for your application ▶



LNP RESINS
& COMPOUNDS

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