#### CHEMISTRY THAT MATTERS™



# UL746G CERTIFIED LNP™ ELCRES™ NPCRX9612U RESIN MEETING PFAS REGULATIONS

#### MORE RELIABILITY IN MEDICAL DEVICES

Device OEMs seek material solutions that can comply with potential PFAS regulations without sacrificing chemical resistance or durability.

Frequent exposure to aggressive disinfectants may cause stress cracking potentially resulting in premature failure.

The new UL746G certified LNP™ ELCRES™ NPCRX9612U resin can offer excellent resistance to disinfectants while meeting UL 94 V-0 at 1.5mm.



#### CHEMICAL RESISTANCE TO DISINFECTANTS

SABIC ESC Method: per ASTM D543 Exposure conditions: 7 days, 23°C; Strain level: 1.0% Quaternary ammonium salts Peroxygens Sani-Cloth® Diversey Virex<sup>®</sup> II 256 AF3 Oxivir® TB **PRODUCT**  $\sigma_{v} \epsilon_{b}$  $\sigma_{v} \epsilon_{b}$  $\sigma_{v} \epsilon_{b}$ FR PC/ABS PC/PBT **ELCRES CRX7412U RESIN ELCRES NPCRX9612U RESIN** 

Compatibility color rating	Yield stress retention ( $\sigma_y$ )	Elongation at break retention ( $\epsilon_{ m b}$ )	
Compatible	>90	80 - 139	
Marginal	80 – 89	65-79	
Not compatible	< 79	< 64 or > 140	

#### **DISCOVER POTENTIAL BENEFITS**

The new LNP ELCRES NPCRX9612U resin could offer numerous potential benefits to help meet design and performance needs in medical devices and equipment such as:



#### **DISINFECTANT RESISTANCE**

Enhanced resistance to combat premature stress cracking



#### **BIO-COMPATIBLE**

Bio-compatibility according to parts 5 & 10 of ISO10993



#### **IMPACT RETENTION**

Retention of ductility upon exposure to chemicals



#### **CUSTOM COLORS**

Color matching to support design or branding needs



#### **PROCESSABILITY**

Thin wall for light weight designs, miniaturization

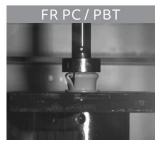


#### **SUSTAINABILITY**

ELCRIN™ grades offer a lower carbon footprint

#### **RESIST EXPOSURE TO AF3**

A high-performance amorphous material, LNP ELCRES CRX resin displays better impact retention after exposure to harsh disinfectants versus a semi-crystalline benchmark. Exposed for two weeks to AF3 wipes, wrapped inside and outside. Initial energy: 43 J; Impact speed: 6 m/s.





#### POTENTIAL APPLICATIONS

- Insulin pumps
- Infusion pumps
- Dental chair components
- Ultrasound monitor
- Surgical tools
- Imaging devices
- Display monitors







### A 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.



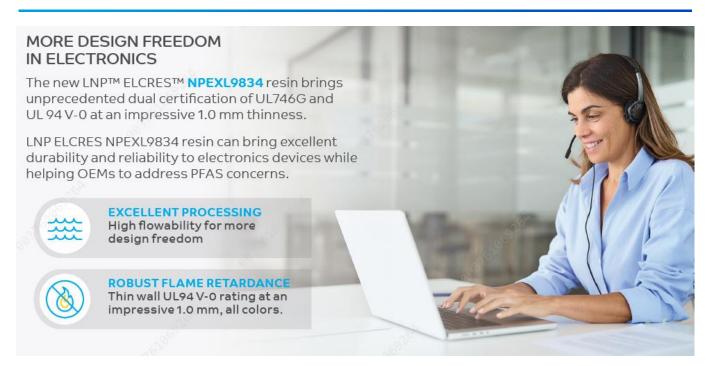


Learn more about UL746G testing. bit.ly/UL-PFAS-TEST

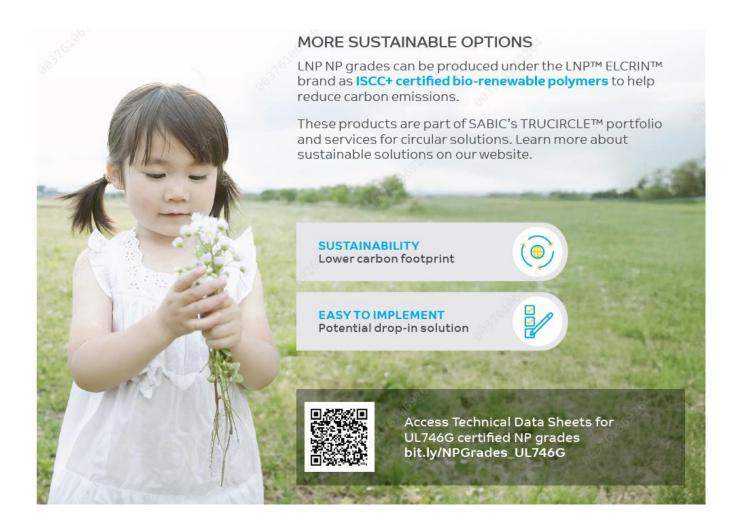
### CUSTOM-COLORABLE UL746G CERTIFIED NP GRADES UNDER THE NEW NP FAMILY NOMENCLATURE

In addition to the NPCRX9612U resins, the following grades are commercially available.

CRES™	UL94 V-)	High flow (MVR 24)	NPEXL9834
.INS	@ 1.0mm	Low temp ductility (-40°C)	
LN <sup>TM</sup> EL	UL94V-0	Standard flow (MVR 7)	NPCXL9030L
RES	@ 1.5mm	Low temp ductility (-60°C)	







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## SABIC MATERIAL FINDER Find the right Specialties material for your application





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