

## LNP<sup>TM</sup> ELCRES<sup>TM</sup> CRX COPOLYMER RESINS IMPROVED CHEMICAL RESISTANCE MATERIALS FOR MEDICAL ENCLOSURES AND HOUSINGS

With patient safety at the forefront, the healthcare industry is mobilizing to address the concerns of increasing patient infections associated with medical care, known as hospital acquired infections (HAI). To help meet this challenge, medical equipment and high touch surfaces in patient care settings are repeatedly wiped down with increasingly aggressive chemical disinfectants.

### NEED FOR IMPROVED CHEMICAL RESISTANCE

Manufacturers of medical equipment for patient monitoring, imaging, diagnostic, fluid and medication delivery need materials that offer improved chemical resistance to the more aggressive disinfectants used today in healthcare settings.



NEW SOLUTION OFFERING

SABIC'S LNP ELCRES CRX resins leverage unique copolymer technology to provide improved chemical resistance for healthcare devices and equipment, compared to existing materials used such as PC/ABS, PC/PBT, or co-polyester resins and blends.

Ethanol

### CHEMICAL RESISTANCE DATA – ENVIRONMENTAL STRESS CRACKING (ESC) PERFORMANCE

Compared to traditional PC, ABS, PBT and co-polyester resins and blends — which are potentially incompatible with highly aggressive disinfectants such as quaternary ammonium compounds — the new LNP ELCRES CRX resins can help prevent stress cracking and mitigate crack propagation.

SABIC ESC Method: per ASTM D543 Strain level: 1% strain Exposure condition: 23 C Application: Saturation method	Mold shrinkage (%)	Exposure days	ନ୍ଦ SANI-CLOTH® ଜ Bleach	α α SANI-CLOTH® HB	α β SANI-CLOTH® AF 3	α α β SANI-CLOTH® plus	α α Diversey Oxivir® TB	A Trichlorosocynuric Ф Асід	g Cavicide® R CaviWipes1	R SANH-CLOTH® Prime	ά φ Virex® II 256	α Virex® TB	α <sup>κ</sup> α CIDEX® OPA approxementation	α <sup>κ</sup> α Betadine	م ۳ IPA (70%)	
PRODUCI																⊢
PC/ABS	0.6	7	••					•	-	-			•=	••	••	
PC/PBT	1.0	7	••	••	•■	•	••	••	••	••	••	•=	•	••	••	
CRX5421 RESIN	1.5	7	••	••	••	••	•▲	••	••	••	••	••	••	••	••	
CRX1414 RESIN	0.8	7	••	••	• •	••	••	••	••	••	••	•=	••	••	••	
	0.8	3	-	-	••	-	-	-	-	-	-	•	-	-	-	
CRX9411 RESIN	0.8	7	••	••	• 🔺	••	••	••	••	••	••	•■	••	••	••	
	0.8	3			••							••				

PLASTICS DETERMINATION OF RESISTANCE TO ENVIRONMENTAL STRESS CRACKING (ESC) METHOD

SABIC's ESC method evaluates retention of tensile properties vs. control for up to 7 days.



This information should be viewed as a screening test. End users are responsible for determining the suitability of these products for their application requirements.

# LNP<sup>™</sup> ELCRES<sup>™</sup> CRX COPOLYMER RESINS PERFORMANCE PROPERTIES

LNP ELCRES CRX resins are a new family of polycarbonate copolymers that can provide improved chemical resistance. These resins are based on unique copolymer building block blends offering a combination of:



UL yellow card pending<sup>1</sup>

#### **CONTACT DETAILS:**

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