### CHEMISTRY THAT MATTERS™

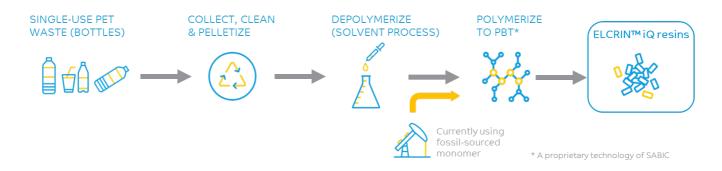


## LNPTM ELCRINTM IQ RESIN FOR CIRCULAR SOLUTIONS

SABIC's LNP ELCRIN iQ resin is a proprietary technology which uses chemical de-polymerization to process single used recycled PET plastics into a polymer - polybutylene terephthalate (PBT). ELCRIN iQ PBT resin contains up to 60% recycled weight content and offers a drop-in solution for conventional PBT and other alloy materials with similar applications in industries such as electronics & electrical, consumer, healthcare and automotive.



Upcycling of post consumer recycled PET into ELCRIN iQ resins



#### VALUE PROPOSITION COMPARED TO FOSSIL BASED PBT COMPOUNDS.



May comply with regional food contact regulations

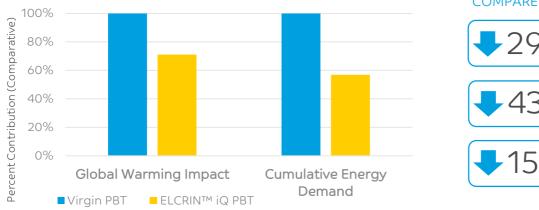
- 1. REACH according EC1907/2006 and related ECHA list of restricted substances
- 2. RoHS according Directive 2011/65/EU, 2015/863/EU, 2017/2102/EU and its amendments.

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# LNPTM ELCRINTM IQ RESIN FOR CIRCULAR SOLUTIONS

### COMPARISON OF RESIN CRADLE TO GATE FOOTPRINT DATA\*\*\*



### **COMPARED WITH VIRGIN PBT\***







\*\* Midpoint impacts, Cumulative Energy Demand V1.11 and IPCC 2013 GWP 100a V1.03 used to measure CED and GW impacts.

ELCRIN<sup>TM</sup> iQ product provides a drop-in circular solution to virgin PBT and other conventional alloy materials with similar properties. Compared to other recycled technologies, ELCRIN<sup>TM</sup> iQ portfolio can offer consistent quality, colorable space and regional food contact regulation compliance.

Grade	Description	PCR content (wt%) <sup>1</sup>
W1000XiQ	Unfilled PBT, general purpose	Minimum 56 %
W1000JiQ	Unfilled PBT, included in SABIC's healthcare product policy, may comply with regional food contact regulations <sup>2</sup>	Minimum 56%
W10001iQ	Unfilled PBT, Non Br/Cl flame retardant	Minimum 44%
WF006XiQ	30% glass, PBT, general purpose	Minimum 37%
WF006JiQ	30% glass, PBT, unfilled PBT, included in SABIC's healthcare product policy, may comply with regional food contact regulations <sup>2</sup>	Minimum 37%
WF0061iQ	30% glass, PBT, non Br/Cl flame retardant	Minimum 25%
WF006NiQ	30% glass, PBT, dimensional stability, NMT capable	Minimum 25%
610001UXiQ	Unfilled PC/PBT, non Br/Cl flame retardant, UV	Minimum 12%
610009UXiQ	Unfilled PC/PBT, FR, UV	Minimum 19%
61000liQ	Unfilled PC/PBT, impact modified	Minimum 22%
6K002XiQ	10% talc filled, PBT/PC	Minimum 18%

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1. PCR content certification is conducted by SCS Global Service.

2. Food contact declaration letter provided per request

<sup>\*</sup> Virgin PBT resin produced through PTA process

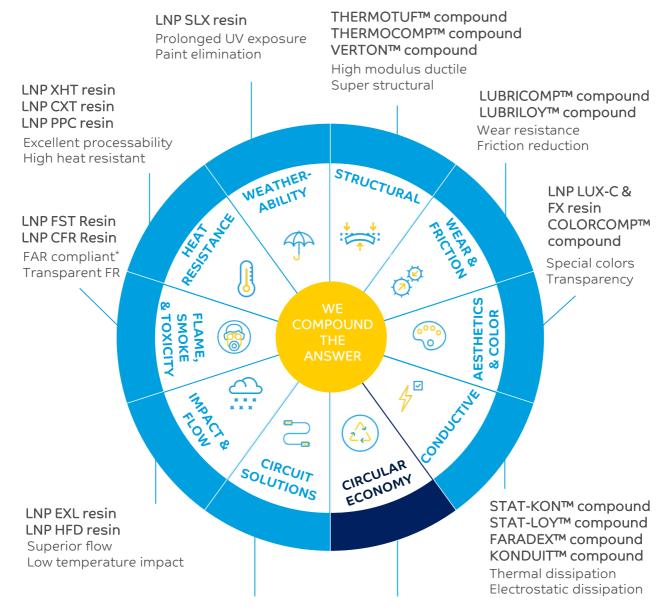
<sup>\*\*\*</sup> The life cycle assessment study was completed by SABIC in 2020 and underwent third-party critical review as per ISO 14040/14044 standards.

### CHEMISTRY THAT MATTERS™



### LNP™ COMPOUNDS & COPOLYMER RESINS

Over 70 years of innovation in thermoplastic compounding enables SABIC's Specialties business to offer an extensive materials portfolio.



THERMOCOMP compound Tunable Dielectrics MID (Laser Direct Structuring) Renewable Compounds | Mechanical Recycling | Chemical Recycling |Sustainable Design

Reduced energy & carbon footprint Waste depletion

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<sup>\*</sup>FAR25.853 compliant