CHEMISTRY THAT MATTERS™

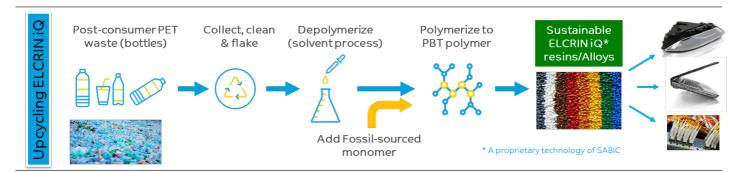


LNP™ ELCRIN™ iQ SUSTAINABILITY SOLUTION

ELCRINTM iQ is proprietary technology of SABIC, which uses chemical de-polymerization to process recycled PET plastics into a polymer - polybutylene terephthalate (PBT). ELCRINTM iQ compounded resins contains up to 66% recycled content. ELCRINTM iQ portfolio can also offer a drop-in solution for conventional PBT and other conventional alloy materials with similar applications such as electronics & electrical, consumer electronics, automotive and other markets.

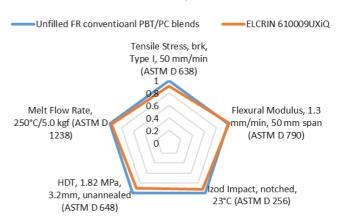


Upcycling of post consumer wasted **PET** into **ELCRIN** iQ



Compared to virgin resin, LNPTM ELCRINTM iQ has a smaller "cradle-to-gate" environmental footprint, as measured by Cumulative Energy Demand (CED) and Global Warming Potential (GWP). By displacing the virgin raw materials, LNPTM ELCRINTM iQ resin has been shown through peer-reviewed life cycle assessment to reduce the energy and carbon footprint of the material by up to 57 percent and 49 percent, respectively*.

Comparable properties vs conventional compounds



^{*} The original peer-reviewed life cycle assessment study was completed by SABIC in 2011. The results are being reviewed and updated based on current models, with expected completion and peer-review in 2019

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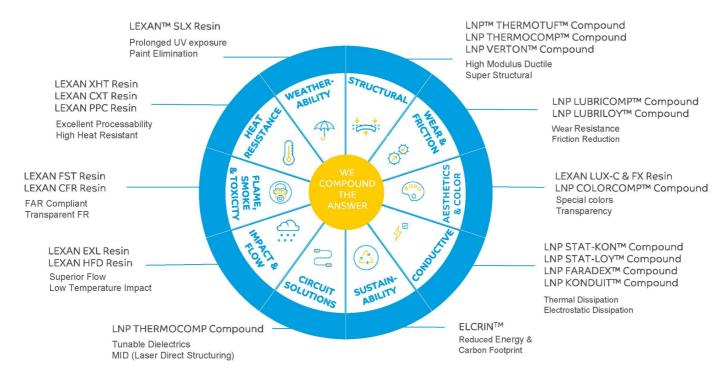
LNPTM ELCRINTM iQ SUSTAINABILITY SOLUTION

ELCRIN™ iQ portfolio: a drop-in renewable material solution

ELCRINTM iQ compounds provide a drop-in renewable solution to virgin PBT and other conventional alloy materials with similar properties. Compared to other recycled technologies, ELCRINTM iQ compounds can offer consistent quality, colorable space and FDA compliance.

ELCRIN™	Description	Renewable content (%)
W1000XiQ	Unfilled PBT, FDA compliance possible	66
W10001iQ	Unfilled PBT, Non Halogenated, Non Brominated Flame retardant	46
WF006XiQ	30% Glass, PBT	46
WF0061iQ	30% Glass, PBT, Non Halogenated, Non Brominated Flame retardant	32
610001UXiQ	Unfilled PC/PBT, Non Halogenated, Non Brominated Flame retardant, UV	20
610009UXiQ	Unfilled PC/PBT, FR, UV	13
61000liQ	Unfilled PC/PBT, Impact modified	26
6K002XiQ	10% Talc filled, PBT/PC	19

LNP™ COMPOUNDS & COPOLYMER POTENTIAL SOLUTIONS



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