CHEMISTRY THAT MATTERS™



## ANOTHER STEP TOWARDS CIRCULAR ECONOMY

POST-CONSUMER RECYCLED LEXAN™ FILM SOLUTIONS

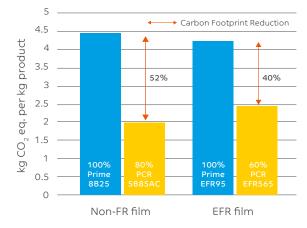


# SABIC Functional Forms introduces a new portfolio of Post-Consumer Recycled films, the latest addition to LEXAN<sup>™</sup> polycarbonate film for high-end sustainable solutions, to meet the global recycling challenges.

SABIC's vision for the future involves a world where plastics never end up in our environment, landfills or oceans. To integrate different dimensions of sustainability into the business's core strategy, SABIC's scientists are continually striving to find innovative ways to recycle plastics and remake them into new products to reduce the global environmental footprint.

As part of SABIC's TRUCIRCLE™ portfolio, showcasing our circular innovations, we produce LEXAN<sup>™</sup> EFR and non-FR film portfolio from Post-Consumer Recycled (PCR) resins that offer equivalent performance to our virgin polycarbonate films.

#### ENVIRONMENTAL IMPACT OF PCR FILM SOLUTIONS\*



\* Global Warming Potential IPCC 2013 GWP 100a V1.03

LEXAN POLYCARBONATE FILM MADE OF PCR (POST-CONSUMER RECYCLED) RESINS



- Non Flame Retardant film
- Printability without pre-treatment
- Easy thermoforming and hydro-forming
- Suitable for printing and labeling

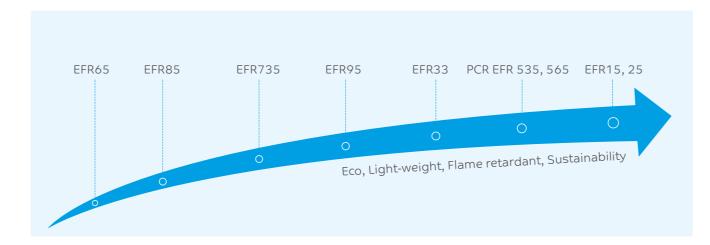
- Eco and flame-retardant film
- UL-94 recognition (VTM-0 to V-0)
- Suitable for electrical & electronics industry e.g. EV battery packs

### LEXAN<sup>™</sup> PCR EFR FILM SOLUTIONS

New LEXAN<sup>™</sup> EFR535 (30% PCR) and EFR565 (60% PCR) are PCR flame-retardant polycarbonate films, presenting excellent eco solutions for global Electrical & Electronics manufacturers to go beyond current ecological directives by voluntarily eliminating halogenated additives in their products. These new films provide excellent EFR technology in non-Bromine and Chlorine.



#### SABIC LEXAN EFR FILM EVOLUTION





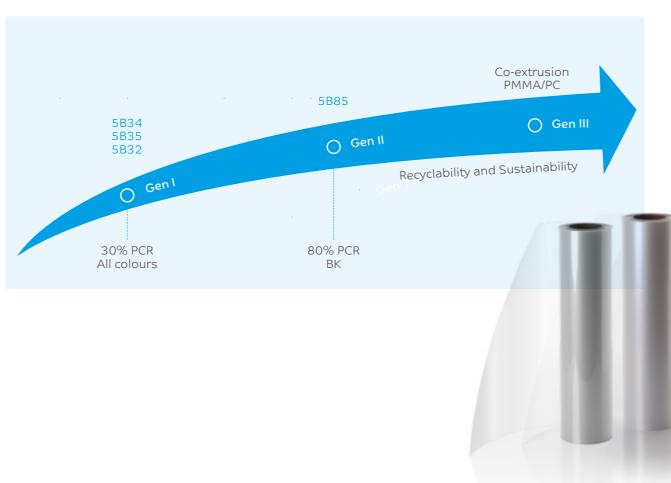
### LEXAN PCR NON-FR FILM SOLUTIONS

LEXAN<sup>™</sup> Non-FR PCR PC films are made of 30% to 80% PCR resins, which can deliver 25~ 50% more reduction in carbon footprint depending on the grade and are available with two sides textured or one side polished / one side textured surface.

This Post-Consumer recycled polycarbonate film offers high-temperature resistance, significant dimensional stability, and excellent printability (no need for pretreatment). It is a suitable solution for multi-layer printing and can be screen printed using traditional solvent-based or water-based inks and UV or infrared drying inks.



#### NON-FR PCR FILM GRADES





#### **BENEFITS:**



EXCELLENT ELECTRICAL AND MECHANICAL PROPERTIES

HIGH CHEMICAL AND

HYDROLYTIC RESISTANCE



UL-94 RECOGNITION,

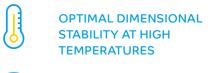


COMPATIBILITY WITH ADHESIVES

VTM-0 TO V-0

#### **POTENTIAL APPLICATIONS:**

- Battery packs and adaptors for computers, laptops, mobile phones
- Heat/dielectric shielding and insulation barriers
- Die-cut insulators and spacers
- Labels and overlays e.g. home appliances





ECO FLAME RETARDANT



EXCELLENT PUNCTURE RESISTANCE



NO CHLORINE OR BROMINE COMPLIANCE

#### **BENEFITS:**



EXCELLENT DIMENSIONAL STABILITY



HIGH IMPACT RESISTANCE



EASE OF THERMOFORMING, HYDRO-FORMING, AND BENDING



EASE OF EMBOSSING AND DIE-CUTTING

SCRATCH AND WEAR RESISTANCE ON TEXTURED SIDES AND MAR RESISTANCE ON POLISHED SIDE



PRINTABILITY WITHOUT PRE-TREATMENT

#### POTENTIAL APPLICATIONS:

- Multi-layer printing applications, such as overlays
- High-performance labeling for home appliances
- Suitable for forming and die-cutting
- Suitable for screen printing
- LED / LCD or displays for audio and video equipment
- Automotive dashboard and interior applications

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