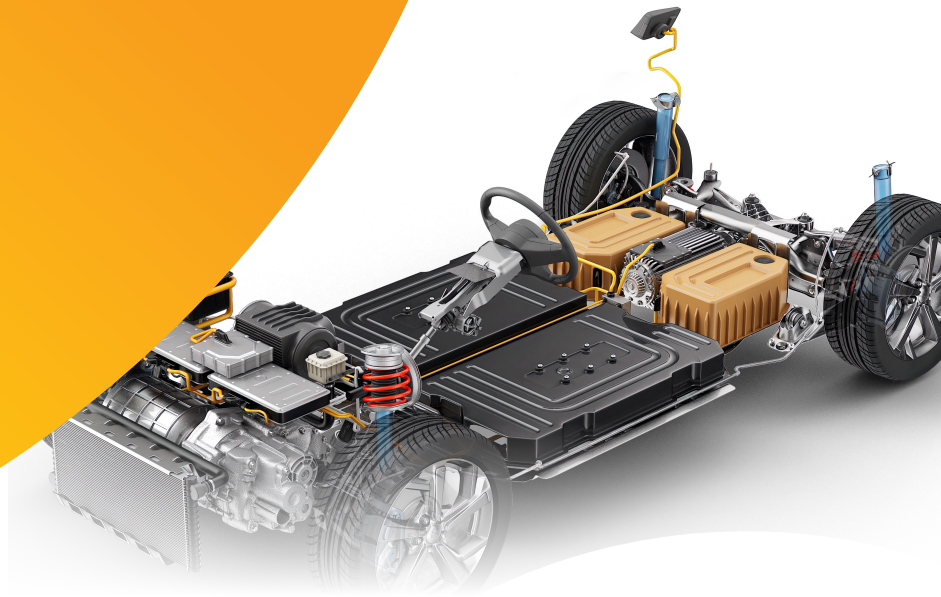


# PROJECT HIGHLIGHT

CASE STUDY



## ADVANCED SUSTAINABLE MOBILITY: LIGHTWEIGHT AND COMPLIANT EV BATTERY PACK SOLUTIONS

To produce a slim and lightweight EV battery pack system, Boback CNS has engineered a state-of-the-art roll-to-sheet thermoforming machine. With this cutting-edge technology, it is possible to produce mass quantities of insulation sheets, which meet the environmental guidelines and high standards<sup>1</sup> of electrical and mechanical properties from EV battery manufacturers.

### PRODUCT SOLUTION:

LEXAN™ EFR95 film in 0.43mm can be used in EV battery module covers, thermoformed and fabricated with patented processes to solve the OEM's demanding requirements like weight reduction and design freedom.

### <sup>1</sup>INDUSTRY STANDARDS

- RoHS-REACH compliant
- Dielectric strength
- Flame retardant
- Resistance to chemicals (CTI)

### PRODUCT BENEFITS:



#### LIGHTWEIGHT

To optimize energy efficiency by reducing the overall weight of the battery pack



#### 3D PRINTING

Provides 3D formed shapes which avoids weight from injection molded parts



#### FLAME RETARDANT

UL94 V0 flame retardant and CTI 3 values for UL standard



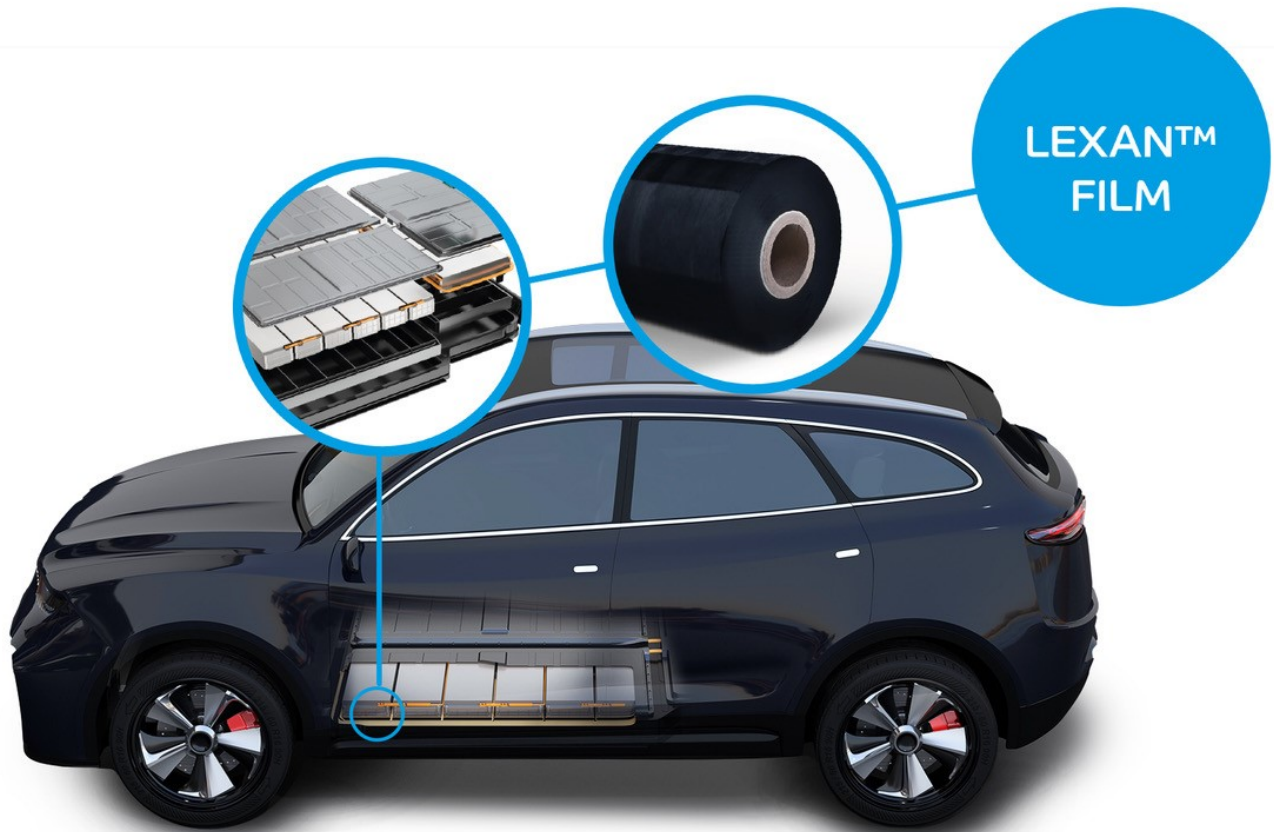
#### DESIGN FLEXIBILITY

Enables compact and integrated design of battery modules

## ABOUT BOBACK CNS

Boback CNS enhanced their mass-production capability to 3D formed insulation sheet to meet the growing demands from Electrical Vehicle (EV) Battery Original Equipment Manufacturers (OEMs) by using LEXAN™ EFR film.

This in-line forming system not only reinforces their commitment to meeting industry requirements but also signifies their dedication to delivering innovative solutions that align seamlessly with the evolving needs of electric mobility.



## MORE INFORMATION

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