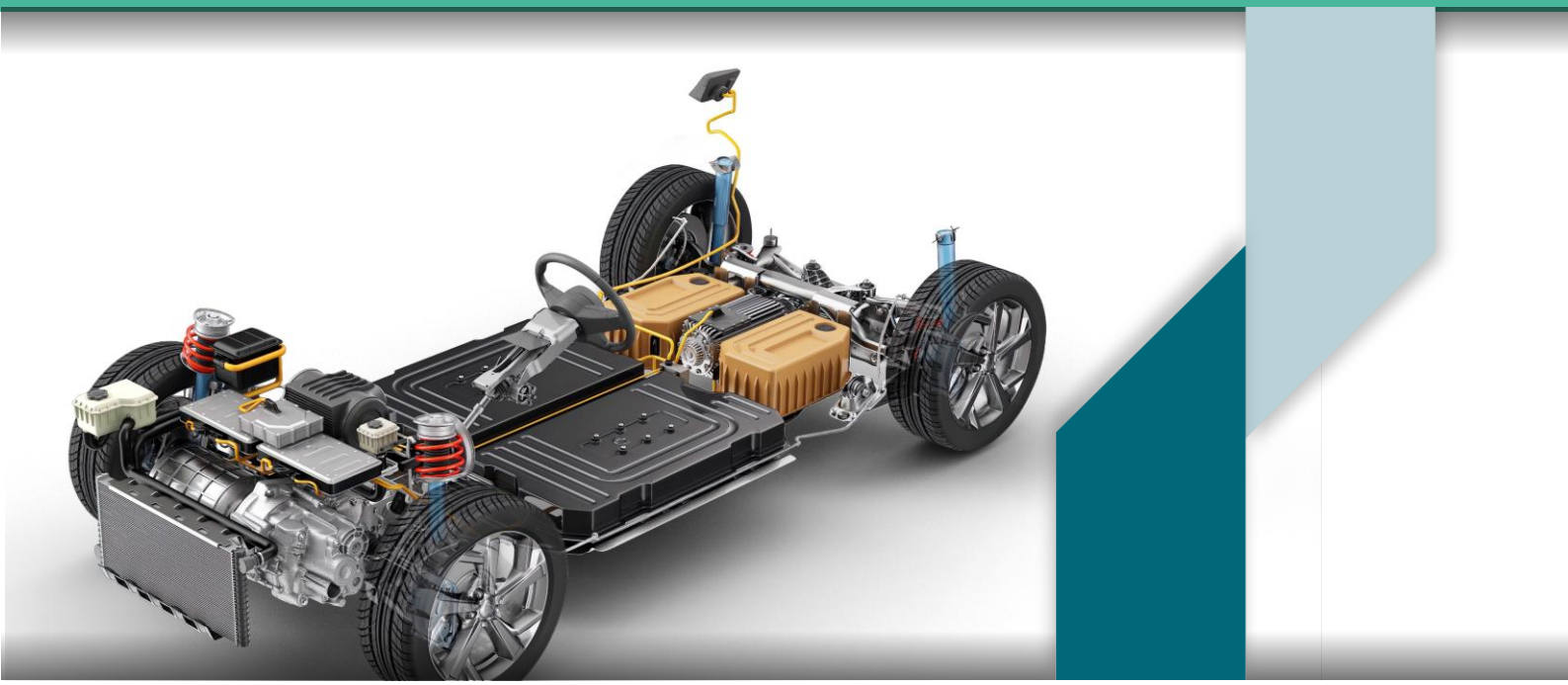
CASE STUDY

POLYVANTIS



LIGHTWEIGHT AND COMPLIANT EV BATTERY SOLUTIONS

TO IMPROVE PERFORMANCE AND REDUCE COSTS & WEIGHT

To produce a slim and lightweight EV battery pack system, Boback CNS has developed a roll-to-sheet thermoforming machine, which enables mass production of insulation sheets that meet environmental standards and high standards for electrical and mechanical properties set by 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.

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

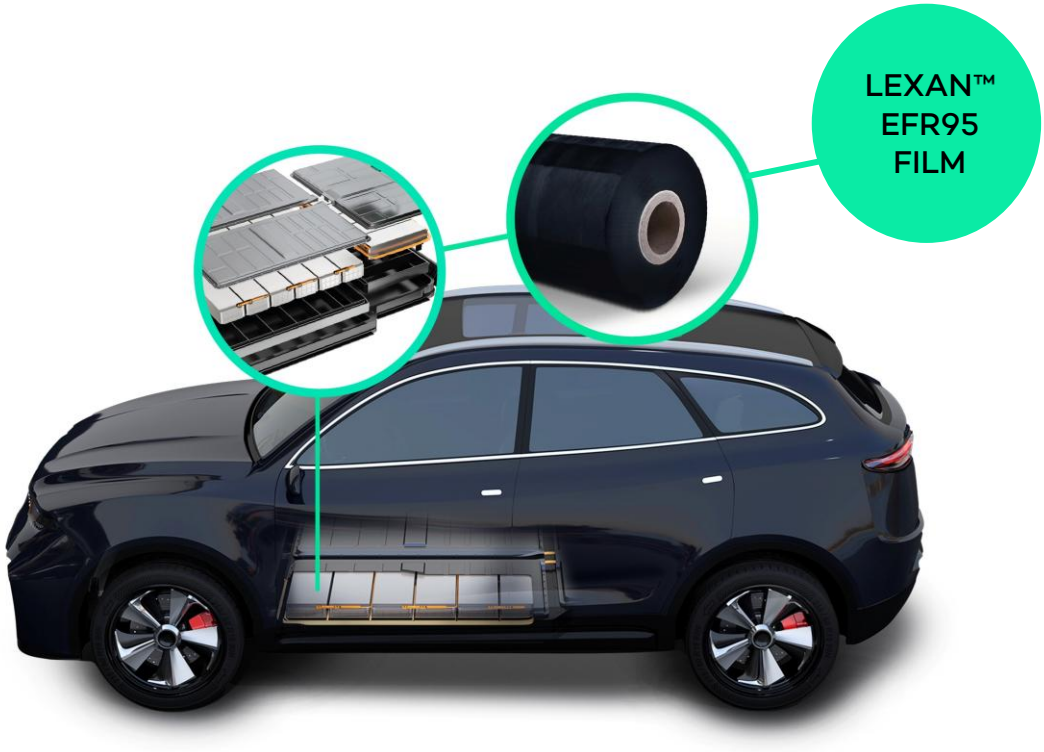
FLAME RETARDANT
UL94 V0 flame retardant and CTI 3 values for UL standard

DESIGN FLEXIBILITY
Enables compact and integrated design battery modules

ABOUT BOBACK CNS

Boback CNS enhanced its mass-production capability for 3D-formed insulation sheets to meet the growing demands of Electric 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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POLYVANTIS

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