LV Battery Insulation

Fiber Insulation

The suite of low-voltage battery thermal insulation is comprised of several composites and designs. products are comprised of non-glass, low thermal conductivity, fluid resistant materials validated for automotive Underhood applications. The designs are based on customer requirements and packaging space and can be 4 or 5 sided.

Low thermal conductivity cores

- Lytherm® needled PET
- o dBCore® thermal bonded polyolefin

Designs

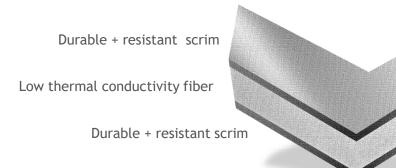
- o 5-Sided: 4 surfaces + Integrated Top Cover
- 4-Sided: 4 surfaces
- Compression and sealing features

Features

- o Flexible and easy to install quick single direction assembly
- o Rapid launch: Concept to serial production
- Integration of labels

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- o Compression for improved packaging efficiency
- Aesthetic
- o Highly resistant to aggressive underhood environments

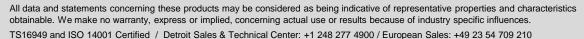










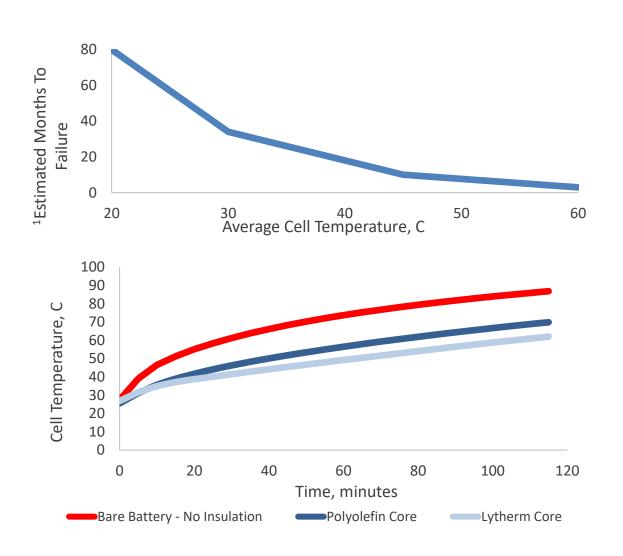




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Integrated Thermal Protection in Multiple Forms



Design Considerations

- An 18 °C reduction in cell temperature results in a 25% increase in battery life
- Low tooling investment and lead times
- Insulated battery thermal response 120 °C soak for 2 hours
- Average temperature reduction 0 to 1 hour: 13 to 18 ° C
- Average temperature reduction 1 to 2 hours: 18 to 25 °C

¹Data: SAE Battery Council International (BCI)

