

## ZeroAdvance<sup>™</sup> Thermal Runaway Protection Series: ZA070-G UltraLight Heat Shield

ZA070-G represents a series of next-generation heat shields, expertly designed for a wide range of battery applications. This coated glass composite balances superior thermal and electrical insulation properties with an ultra-thin, lightweight design engineered for areas where space is limited.

In the case of a thermal runaway event caused by severe cell malfunction, ZeroAdvance<sup>™</sup> Series heat shields are designed to contain and effectively delay flame propagation to other vehicle compartments. The test method shown below demonstrates highly effective barrier performance without penetrating the composite after 10 minutes at 1000°C.

## **KEY FEATURES**

- Lightweight, highly flame resistant thermal insulation barrier
- Electrically insulating
- Low thermal conductivity
- Flexible design, easily cut to shape
- UL94 V-0 adhesive-backed version available

## **APPLICATIONS**

- Pack level protection for EV Batteries against thermal runaway event
- Module-Module Insulation and Fire Protection



PRODUCT SPECIFICATIONS		ZA070-G	Test Method
Weight		1060 g/m²	ASTM D-3776
Thickness		0.75 mm	ASTM D-1777
Tensile Strength		106 kg/cm	ASTM D-5034
Puncture Resistance		350 cm-kgf	ASTM D-751
Flame Resistance	>10 minutes	1100°C	AEC Internal
Thermal Insulation	$\Delta T$ after 10 minutes at 1000°C	575°C	AEC Internal

## REV: 6/10/2024

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