

## Product Highlights

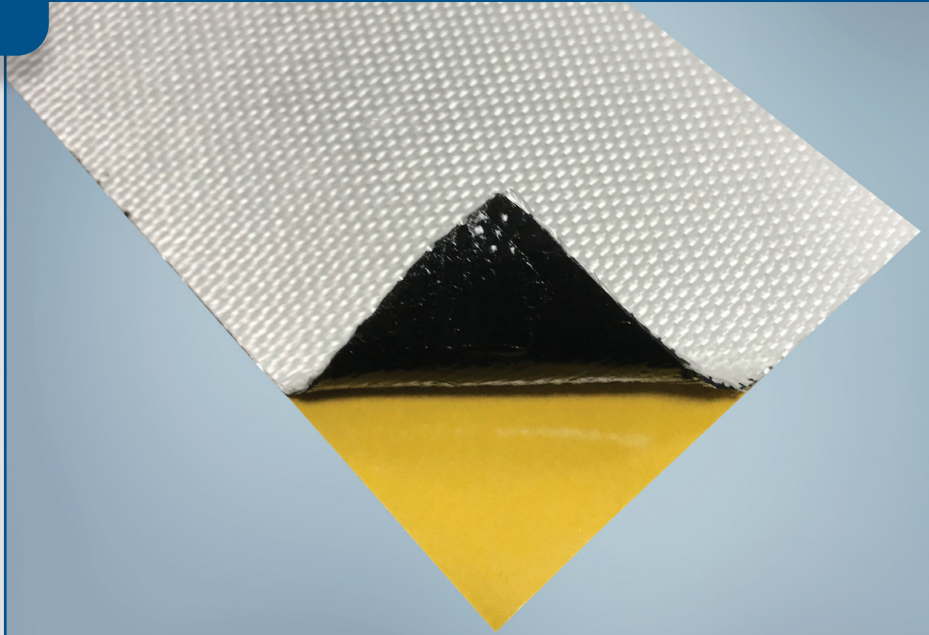
- Flame Protection of +1000°C (+1832°F) x 10minutes
- Efficient level of thermal insulation (+500°C / +932°F)
- Thin, flexible and easy to install
- Customized designs for custom fit
- Directly adheres to battery case

## Typical Applications

- Limit propagation of thermal runaway
- EV Battery Case Liner
- EV Battery Pack:
  - Module level protection
  - Component level protection



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)



**Protexx-Shield® BP-B** is a thin, flexible thermal and flame barrier specifically designed as anti-propagation protection within EV battery pack. Product is an engineered composite structure that provides functionality as a flame barrier and provides thermal insulation and electrical insulation. Material is available with high temperature, pressure sensitive adhesive to allow for direct application onto a variety of surfaces.

Protexx-Shield BP-B is constructed of multiple layers of materials including a flame barrier layer with a specialty coating and a silica fabric structure for strength and insulation properties to limit propagation and failures due to thermal runaway event.

# Performance Data – Protexx-Shield® BP-B

Property	Test Method	Result
Thermal Runaway	SP Internal Test Method	Resists 10min x +1000°C (+1832°F) Flame
Thermal Insulation during +1000°C (+1832°F) x 10min flame	SP Internal Test Method	+500°C (+932°F) thermal insulation when mounted on steel plate
Dielectric Strength Initial	IEC 60243-1	>5kV/mm
Electrical Insulation: Initial & Post Thermal Runaway	1000V DC applied	>4000 MΩ
Thickness	ASTM D1777	0.70mm without release liner
Density	ASTM D1777; D3776; D3776M	1.95 g/cm3

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

## Construction & Typical Product Characteristics

Silica fabric with specialty coating and high temperature pressure sensitive adhesive backing

## Availability

This product is designed to customer specific application, geometry and performance requirements.

Due to the nature of this custom product, please consult your local sales representative for more details.

## Protection of Battery Pack

