

Product Highlights

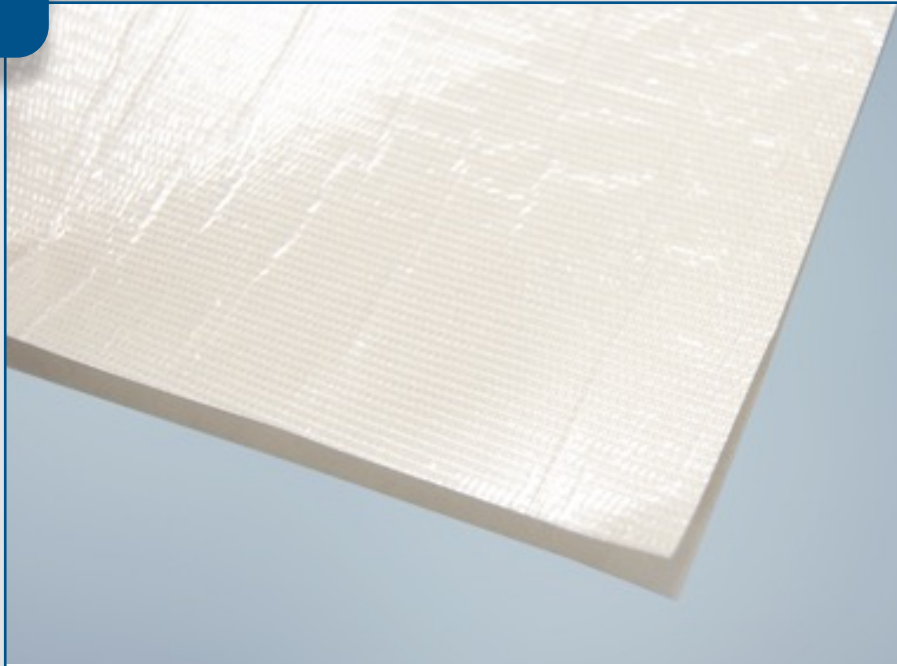
- Flame Protection of +1000°C (+1832°F) x 10minutes
- Efficient level of thermal insulation (+600°C / +1112°F)
- Highly thin, flexible and easy to install
- Customized designs for custom fit
- Contamination free composite structure

Typical Applications

- Limit propagation of thermal runaway
- EV battery pack protection:
 - Case Liner
 - 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® 3-Series Gen 0 is a thin, flexible, highly efficient thermal and flame barrier specifically designed as anti-propagation protection within EV battery pack. Product is a highly engineered composite structure that provides functionality as a flame barrier and provides thermal insulation and electrical insulation. The composite structure allows for clean parts reducing any risk of contamination. Material is available with flame resistant pressure sensitive adhesive to allow for direct application onto a variety of surfaces.

Protexx-Shield 3-Series Gen 0 is constructed of multiple layers of materials including an innovative flame barrier technology that activates during a thermal runaway event to stop flame penetration while additional layers provide insulation. This unique construction ensures excellent protection against potential thermal runaway event.



*Flame test with
Protexx-Shield®
3-Series*

Performance Data – Protexx-Shield® 3-Series Gen 0

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	EN6059-501	20 kV/mm
Electrical Insulation: Initial & Post Thermal Runaway	1000V DC applied	>4000 MΩ
Thickness	ASTM D1777	0.20mm without release liner
Density	ASTM D1777; D3776; D3776M	1.4 g/cm ³
Thermal Conductivity	ASTM E1530-19	0.26 W/m·K

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

Innovative multi-layer composite structure with pressure sensitive adhesive backing that includes release paper

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

