

## Product Highlights

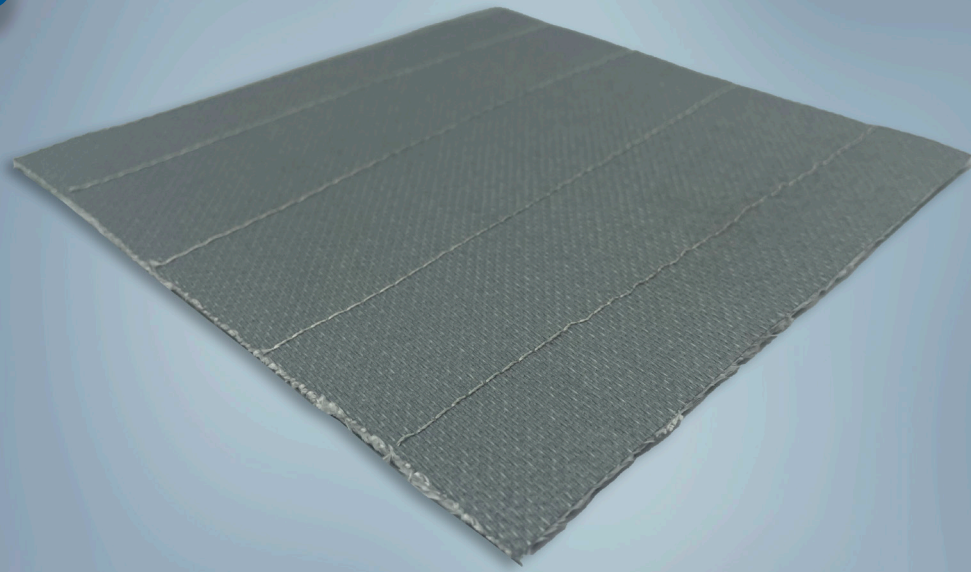
- Flame Protection of +1000°C (+1832°F) for more than 10 minutes
- Effective level of thermal insulation (+600°C / +1112°F)
- Flexible, conformable
- Customized designs for custom fit
- Compatible to adhere to battery case

## 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® 7015** is a thin, flexible thermal and flame barrier specifically designed as anti-propagation protection within EV battery pack. Product is comprised of multiple layers of an engineered composite structure. Protexx-Shield 7015 acts as a flame barrier, low level blast barrier, medium level of thermal insulation and provides electrical insulation. Protexx-Shield 7015 is compatible with pressure sensitive adhesive to allow for direct application onto a variety of surfaces.

Protexx-Shield 7015's dual layer structure provides extra level of protection in harsh environments. The material consist of two identical layers comprised of flame barrier via a specialty coating and a silica fabric structure for strength and insulation properties to limit propagation and failures due to a thermal runaway event. The two layers are stitched together to provide extra protection.

# Performance Data – Protexx-Shield® 7015

Property	Test Method	Performance 7015
Thermal Insulation during +1000°C (+1832°F) x 10min flame	SP Internal Test Method	+600°C (+1832°F) thermal insulation when mounted on steel plate
Thermal Runaway	SP Internal Test Method	Resists 10min x 1000°C Flame
Electrical Insulation: Initial & Post Thermal Runaway	1000V DC applied	> 4000mΩ
Dielectric Strength Initial	EN 6059-501	4 kV
Flammability	UL 94	V0 Rating
Thickness	ASTM D1777	1.6mm
Density	ASTM D1777; D3776; D3776M	1.95 g/cm³
Thermal Conductivity	ASTM D1503	0.13 [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.

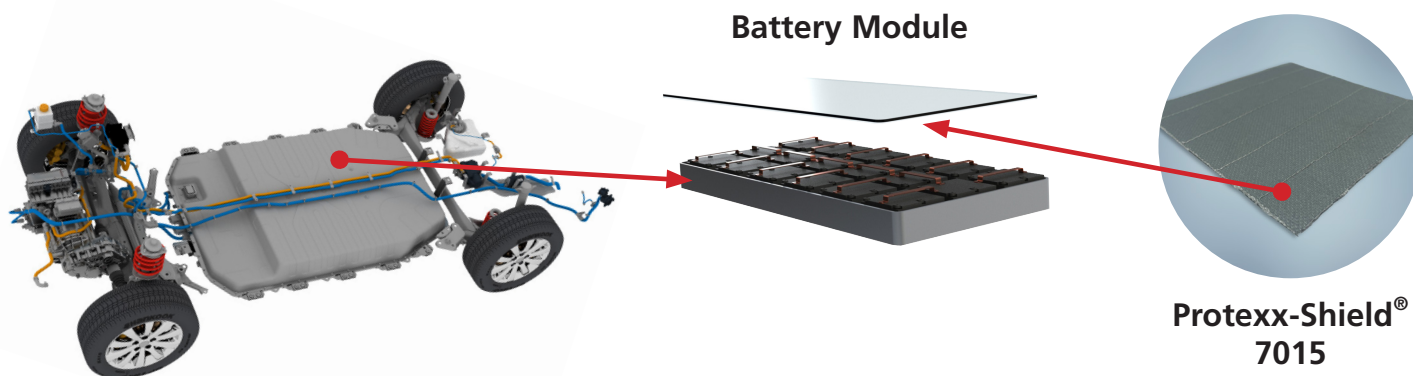
## Construction & Typical Product Characteristics

Dual layer engineered composite structure stitched together  
Individual layers: silica fabric with specialty coating

## 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.



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