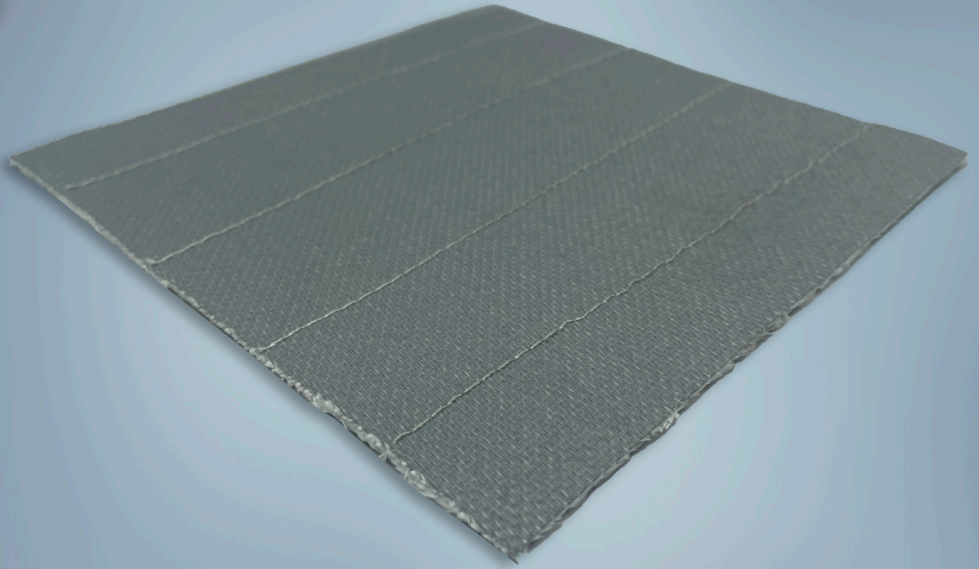


Product Highlights

- 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



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.



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

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/cm ³
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.

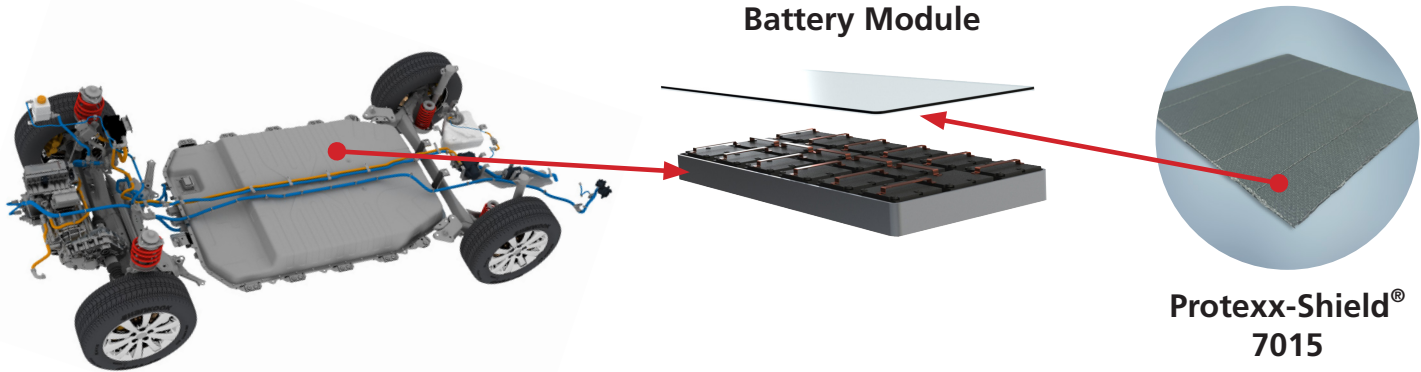
Construction & Typical Product Characteristics

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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