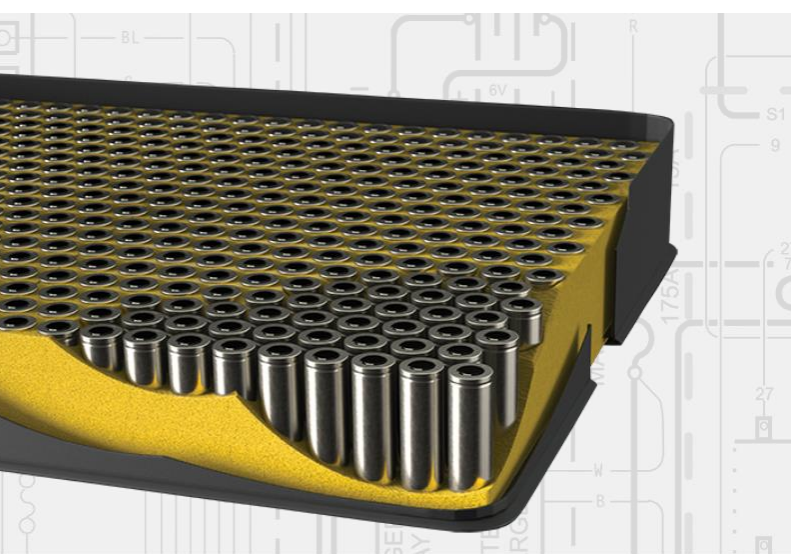




EV Protect 300



Technical Data Sheet



Flame Retardant Encapsulation

EV Protect 300 is a two-component, low viscosity polyurethane encapsulating system that is designed for potting and encapsulating of battery cells in battery modules. This product offers battery design engineers the ability to enhancing safety and protection from thermal propagation.

Technology/Base:	Polyurethane
Type of Product:	Two-component polyurethane
Components:	Polyol and isocyanate
Curing:	Room temperature
Appearance / Color:	Off-white
Consistency:	Low viscosity liquid



Features and Benefits



- Flame retardancy meets requirements of UL94 Flammability of Plastic Materials Vertical Burn Test Rating V-0
- Low mix viscosity, flows easily
- Soft and flexible
- Fast curing



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Technical Data

Un-Cured Properties	A	B	Blend	Condition/Method
Viscosity (cps)	2500	1000	2000	Brookfield RV @25°C
Density (lb-mass/gal)	11.2	10.1	11.0	ASTM 0792
Density (g/cm ³)	1.34	1.21	1.31	
Color	White	Amber		
Blend Ratio by Weight	100	25		
Blend Ratio by Volume	100	27.8		
Shelf Life (days)	365	180		
Gel time (minutes)	9.0			@25°C
Physical Properties				
Hardness, Shore A	60			ASTM D-2240
Tg (°C)	22			TMA
Coefficient of Thermal Expansion (μ/m°C)				
Alpha 1	73			TMA
Alpha 2	235			TMA
Thermal Conductivity (W/m*K)	0.512			
Cured Strength				
Tensile Strength at break (Mpa)	9.1			ASTM D638
Elongation at break (%)	147.6			ASTM D638
Young's Modulus (Mpa)	2.2			ASTM D638

Cure Profile:

Full room temperature cure is achieved within 2-4 days and may be expedited with an oven cure.



General Information

Use suitable 2-part metering and mixing equipment.

The A-component settles over time and requires mixing before use. Blend ratio is 4:1



Storage and Shelf Life

Components should be stored in a cool, dry area.

The B-component should be kept in a tightly sealed container flushed with nitrogen.



Typical Packaging

Please contact your local Sales Office for available packaging options.



Safety and Disposal

Refer to product Safety Data Sheet (SDS) for proper handling and PPE requirements.

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