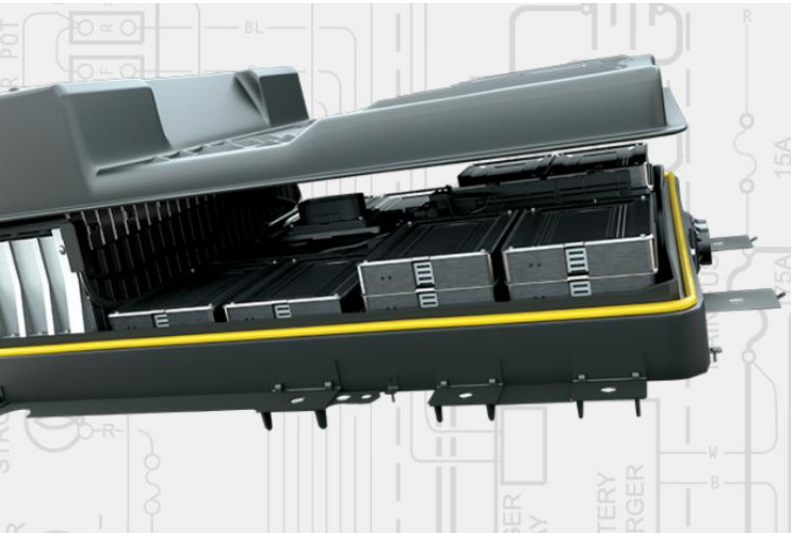




EV Seal 500



Technical Data Sheet



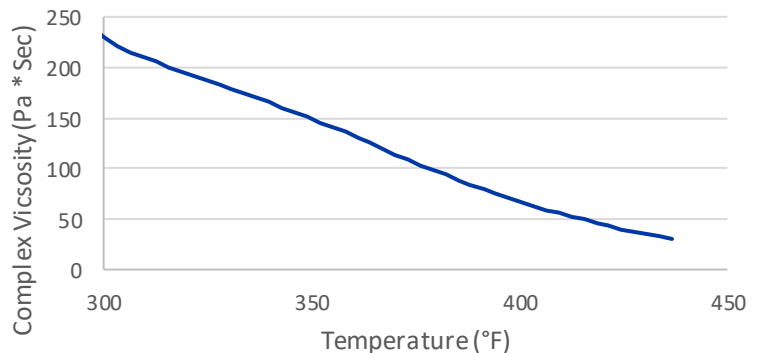
Battery Pack Gasket & Sealant

EV Seal 500 is a thermal plastic hot melt PSA designed for use in gasketing and sealing applications. It is especially suitable for sealing battery pack modules where accessibility and serviceability are a high priority. With the resealable nature of this material, repeated opening and closing of a battery enclosure is simple, easy, and reliable. The EV Seal 500 offers a robust solution for preventing dust & moisture intrusion to any enclosure.

This material is recommended for use with steel, aluminum, and cast iron.

Technology/Base:	Block Co-Polymer
Type of Product:	Re-sealable Gasket
Components:	One Component
Curing:	Non-Reactive
Appearance / Color:	Gray
Consistency:	Hot Melt

EV Seal 500 Temperature viscosity profile



* Recommend operation dispense temperature of 350 – 400 F



Features and Benefits



- One component requires no mixing
- Thermoplastic nature allows for ease of use
- Excellent resistance to dust or moisture intrusion
- Wide Service Temperature Range (-40°C to 110°C)
- Re-sealable capabilities improve serviceability of enclosure
- Suitable for easy processing with proper hot melt dispense systems
- Outstanding absorption of shock, vibration, and CTE
- End of life recyclability



Plug into our EV Adhesive Technology

Download our app to learn more



EV Seal 500



Technical Data

Rheology	Value	Condition/Method
Viscosity	32,000 cPs	Brookfield #29; 20RPM; @200°C
Specific Gravity	0.94	Water Displacement
Mechanical Properties		
Tensile Strength	23.1 PSI	ASTM D412 "Die C"
Elongation	500%	
Cone Pen	120 ddm	ASTM D217 (150g added wt)
Compression Set	90% Recovery	1 wk at RT (50% Compression)
	50% Recovery	1 wk at 80°C (50% Compression)
Force to Compress	45 lbf	ASTM (C972) (50% Compression)
Rebound-Post Force to Compress	99%	5 minutes
	99%	24 hours
Adhesion Testing		
Tensile Strength	16 PSI	Cross Pluck at 0.2"/min
90° Avg. Peak Load	1 PLI	24 hr after at 12"/min



General Information

1. Coating surface area should be clean and free of any oils, residues, dust, or any other contaminants
2. Apply to primary substrate. Primary substrate is the preferred substrate in which the material will remain permanently adhered. Secondary substrate will be married to the primary and material will release from during servicing.
3. Apply using appropriate Hot Melt dispensing equipment. Adjust heating and pressure parameters to achieve appropriate flow rate.
4. Allow 5 minutes for material to cool to room temperature prior to assembly of enclosure.



Handling and Clean-Up

Material can typically be peeled or manually removed by hand easily, however, if necessary, mineral spirits can be used to remove excess residue.



Typical Packaging

Sample Cartridges: 310mL
 Sample Rolls: Various Dimension
 Pails: 5 gal
 Drums: 55 gal



Storage and Shelf Life

Product should be stored at temperature between 8°C to 28°C in the unopened container in a dry location.

Shelf Life: 12 months from date of manufacture.



Safety and Disposal

Please refer to the SDS for product safety and disposal instructions.

Avoid contact with skin and eyes. Product will irritate eyes if contact occurs. Skin irritation is possible on prolonged or repeated contact.

Note:

The values noted in this data sheet are typical properties only and are not intended to be used as material specifications. For assistance in writing a material specification please contact H.B. Fuller for future details.

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