



EV Seal 500

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, 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

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

Technical Data

Property	Value	Condition/Method
Rheology		
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 @ RT (60% Compression)
	60% Recovery	1 wk @ 80°C (60% Compression)
Force to Compress	44.4 lbf	ASTM (C972) (50% Compression)
Rebound-Post Force to Compress	99%	5 minutes
	99%	24 hours
Adhesion Testing		
Tensile Strength	15.5 PSI	Cross Pluck @0.2"/min
90° Peel Peak Load	1.25 PLI	24 hr after @12"/min
90° Avg. Peak Load	1.00 PLI	24 hr after @12"/min



Application Instructions

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.

Storage Conditions

Product should be stored at a temperature between 5°C to 32°C (40°F to 90°F) in the unopened container.

Shelf Life: 12 months from date of manufacture.

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.

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
 Pails: 5 gal
 Drums: 55 gal

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.

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