

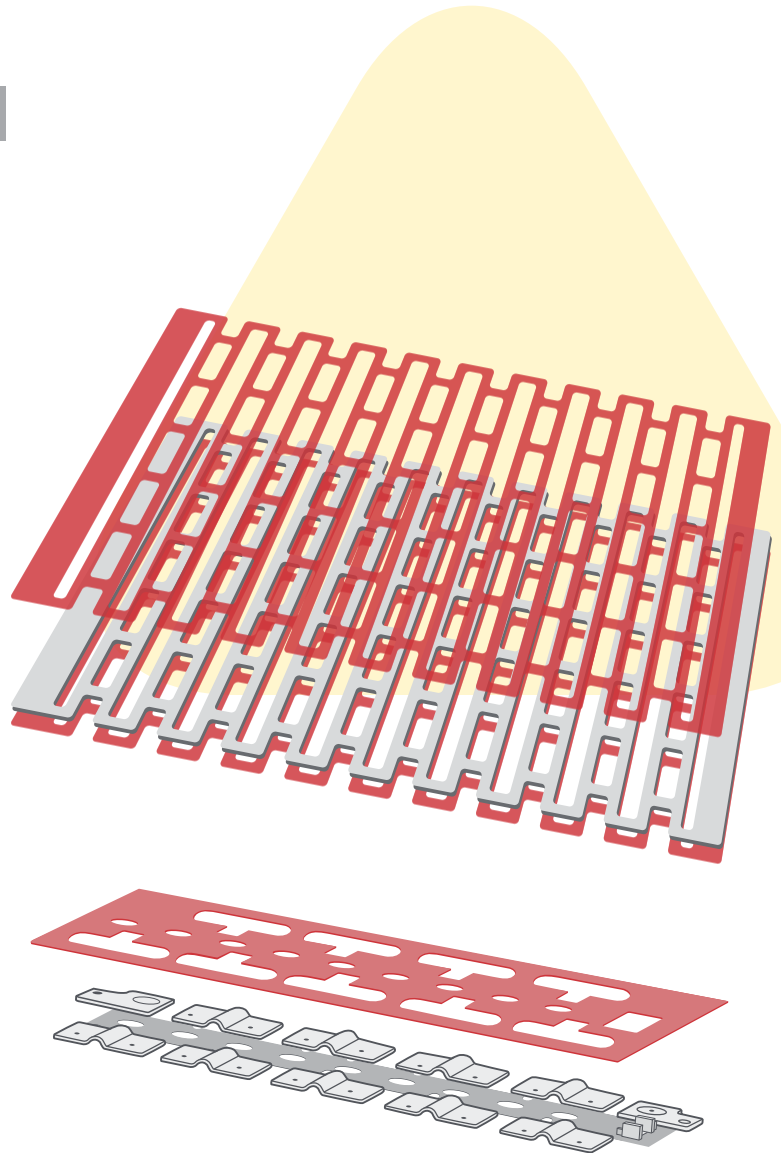
Adhesive tape solutions for cell connection systems | EV battery solutions

Avery Dennison offers adhesive tape options for EV battery cell connection systems. These tapes provide high-temperature dielectric protection, bond securely to inorganic thermal and flame barriers, and can be used to have single-layer, laminated CCS designs.

Pressure-sensitive adhesives for bonding cell connection systems

Cell connection systems are critical for EV safety and performance. Avery Dennison pressure-sensitive adhesive tapes for cell connection systems feature the following elements:

- High temperature-resistant adhesives
- Flame-retardant adhesive options
- Vibration absorption tuned to minimize stress into sense lines and connection points
- 600+ V CTI values (up to 1000V)
- Materials that eliminate injection molded carriers
- Adhesives can have a single layer laminated design that eliminates a topsheet
- Ability to customize solutions to fit application needs



Single coated tapes for dielectric protection

Product	Total Construction (minus liner)				Facestock		Adhesive		Key Benefits
	AC Breakdown Voltage (kV)	Caliper (microns)	Color	Relative Cost	Film Type	Caliper (microns)	Adhesive Type	Caliper (microns)	
ES 1421	>8	84.0	Various	\$	PET	50.0	Acrylic	34.0	Excellent heat resistance, good shear performance
FT 0022	>8	73.7	Clear	\$	PET	50.8	Acrylic	22.9	Clear, good performance
FT 0065	>6	91.4	White	\$\$\$	Flame Tough™ PET	40.6	Flame Tough™ Acrylic	50.8	Flame retardant, easy processing
FT 0333	~4.0	50.8	White	\$\$	PET	25.4	Flame Tough™ Acrylic	25.4	Thin, VTM-1 FR performance
ES 3507	>6	230	Black	\$\$\$	Ceramic / Rubber	193	Acrylic	36	Capable of 800°C heat exposure and maintain dielectric

Double coated tapes for bonding thermal barriers

Product	Total Construction (minus liner)				Carrier		Adhesive		Liner		Key Benefits
	Type	Caliper (microns)	Color	Relative Cost	Film Type	Caliper (microns)	Adhesive Type	Caliper (microns)	Lined		
FT 8383EZ	Double Coated	84	Clear	\$	PET	13	Rubber	36 / 36	•	Economical and tacky, carrier for dimensional stability	
FBA 8960	Double Coated	102	Clear	\$\$	PET	13	General Purpose Acrylic	36 / 53	•	Tacky with improved environmental resistance	
FT 8065	Double Coated	142	White	\$\$\$	Flame Tough™ PET	41	Flame Tough™ Acrylic	51 / 51	•	Strong flame retardancy, carrier for dimensional stability	

Avery Dennison EV battery tape product portfolio

The Avery Dennison EV Battery Portfolio includes a wide range of functional bonding and protection tapes, built on multiple pressure-sensitive adhesive technologies. These are engineered to make EV batteries safer, more efficient and easier to assemble.

The portfolio can help you solve for some of the most common challenges in battery design and construction.



Reducing flammability

Acrylic- and silicone-based adhesives with Flame Tough™ flame-retardant adhesive properties allow composites and materials to meet UL® 94 V-0 and other flame requirements.



Boosting dielectric strength

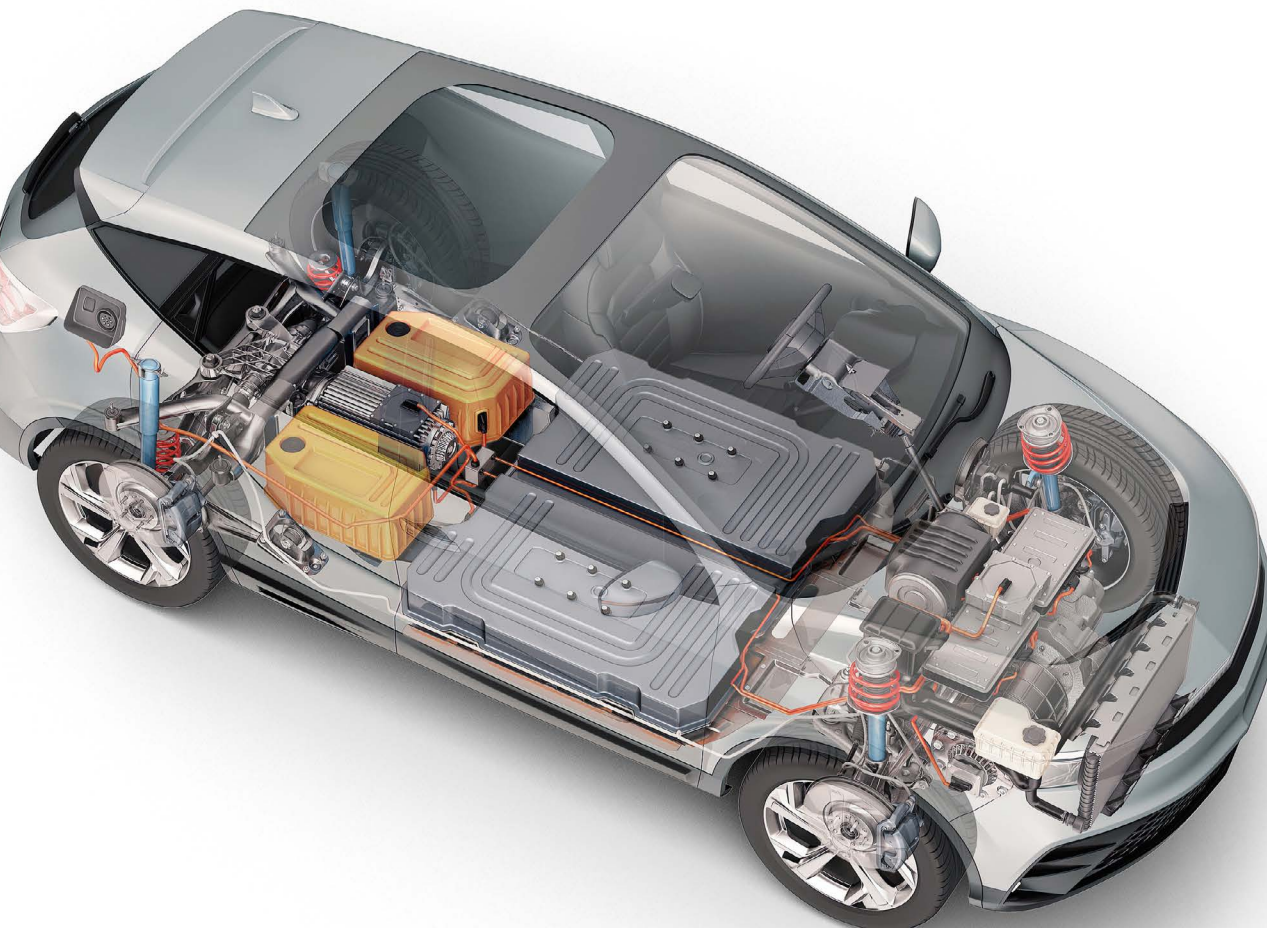
Single-coated Volt Tough™ tapes and double-coated tapes which incorporate dielectric films. Our materials and adhesives are tested for breakdown voltage and dielectric strength requirements using GB/T 1408.1-2016 and ASTM D3755 test methods.



Optimizing design and assembly

Functional tapes can replace mechanical fastening methods while offering a thinner profile, lighter weight, repositionability and instant bond.

Visit tapes.averydennison.com/evbattery to review the full breadth of EV Battery Tape Portfolio solutions.



Go beyond bonding with Avery Dennison: Expansive product selection, plus customization and testing capabilities

The Avery Dennison EV Battery portfolio offers multi-functional solutions that draw from our expansive portfolio of pressure-sensitive tapes and adhesives. We have a long track record in the automotive segment and are relied upon by OEMs and tier suppliers across the industry. Our products meet OEM specifications for a wide range of applications.

Beyond bonding means we also welcome the opportunity to collaborate with automotive OEMs and tier suppliers to develop custom tape solutions. You'll enjoy access to testing facilities and pressure-sensitive adhesive experts who understand the challenges engineers face. We can work together to produce one-of-a-kind products that give you the advantage you seek.

Collaboration

- Global reach
- New product development for custom solution applications
- Business development and specification support for emerging applications
- Application engineering and technical support

Testing

- ISO 17025 certified laboratory
- Online tool offering easy access to our database of OEM certifications
- Industry-standard and custom application testing
- Traditional pressure-sensitive adhesive bulk property testing (peel, tack and shear)
- Environmental conditioning (temperature, humidity, UV, chemical and more)
- Flame performance and dielectric strength testing at the tape and composite level



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