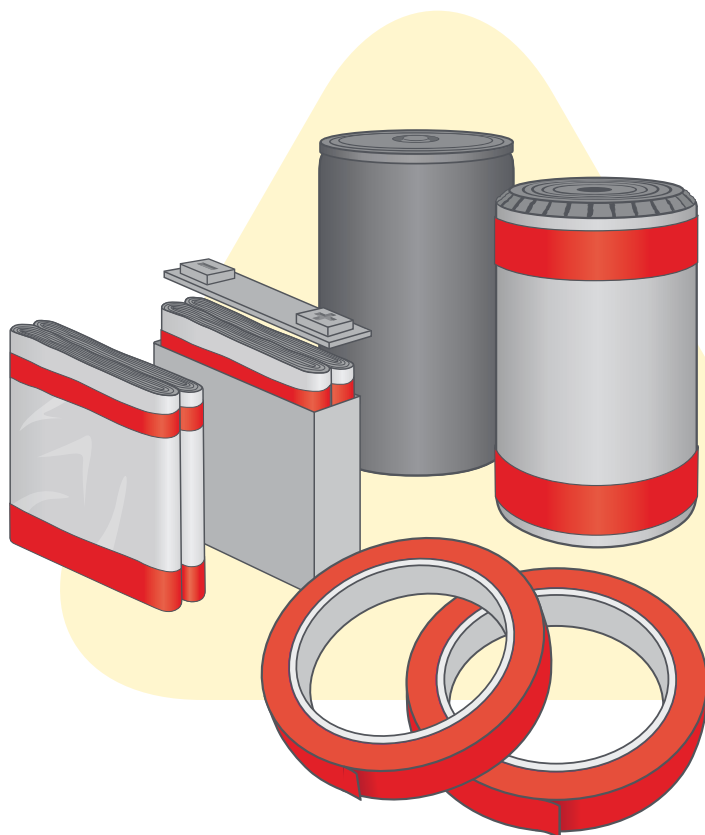


Electrode Fixing Tape | EV Battery Solutions

Fixing tapes are used to bind multilayer electrode constructions consisting of current collector foils, anode and cathode materials, and separator films in EV battery cells. These tapes must be easily visible, compatible with battery materials, and must not contribute to unintentional self-discharge.

Avery Dennison electrode fixing tape solutions are offered with polyethylene terephthalate (PET) and polypropylene (PP) plastic facestocks. These offer key benefits:

- Polypropylene facestock is chemically inert to prevent self-discharge due to DMT redox shuttle
- Green color for visible indication of application
- Electrolyte-compatible acrylic adhesive
- Self-wound, linerless construction with various widths available on plastic cores
- Made in USA for Inflation Reduction Act compliance



Electrode Fixing Tape Product Portfolio

Product	Total Construction		Facestock		Adhesive		Key Benefits
	Caliper (mils)	Color	Film Type	Caliper (mils)	Adhesive Type	Caliper (mils)	
ES 1280	1.6	Green	PP	1.0	Green Emulsion Acrylic	0.6	Inert facestock for best electrolyte compatibility, electrolyte resistant adhesive, green color for application indication
ES 1281	1.5	Green	PET	0.9	Green Emulsion Acrylic	0.6	Electrolyte resistant adhesive, green color for application indication
ES 1282	1.3	Green	PP	0.7	Green Emulsion Acrylic	0.6	Thinner version of ES 1280. Inert facestock for best electrolyte compatibility, electrolyte resistant adhesive, green color for application indication

These tapes are available in varying slit widths. 15mm and 25mm are most common.



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

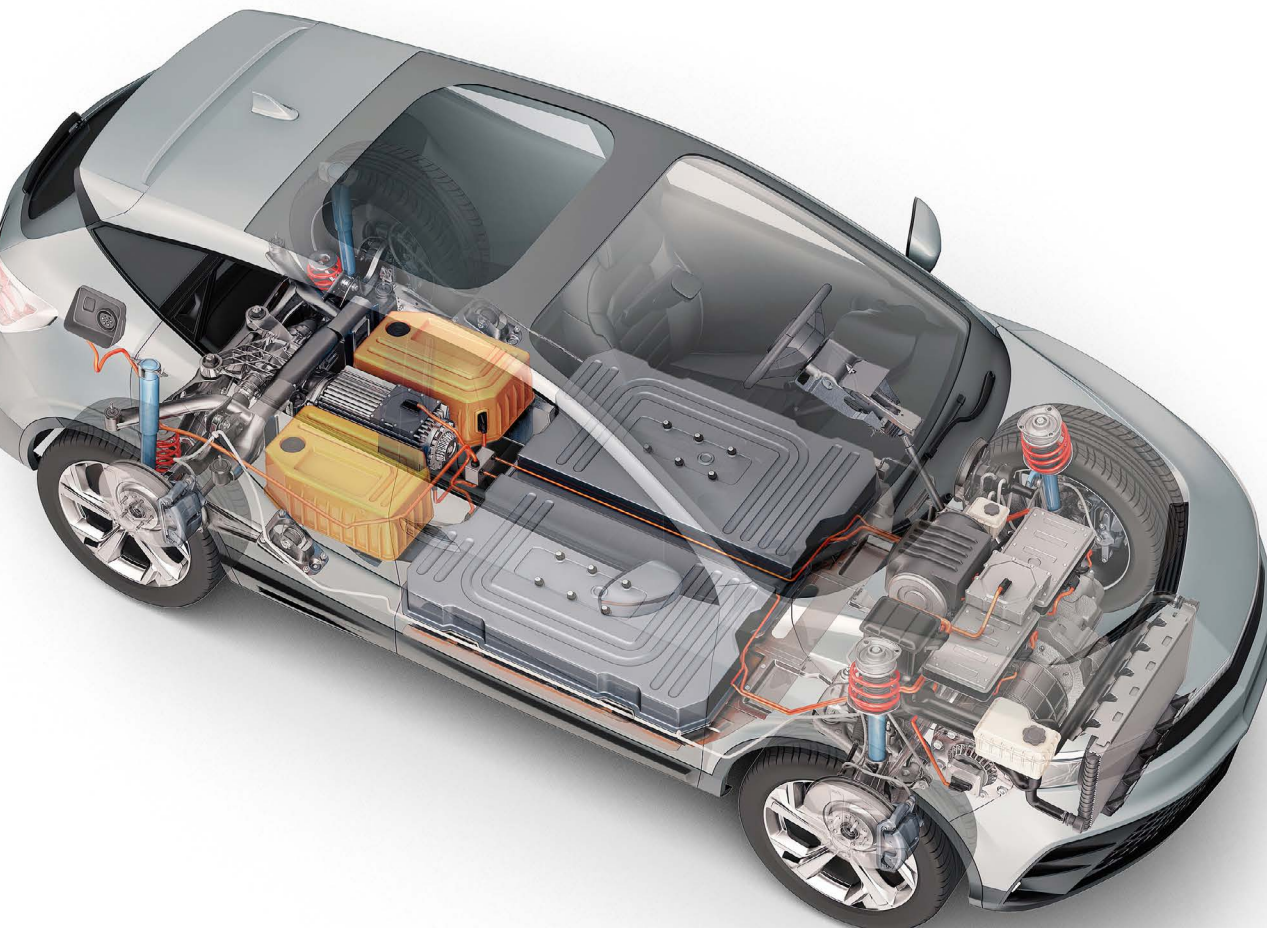
Single-coated Volt Tough™ tapes and double-coated tapes which incorporate dielectric films. Our materials and adhesives are tested for breakdown voltage and dielectric strength requirements using GB/T 1408.1-2016 and ASTM D3755 test methods.



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



04/2024

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