

Electric Vehicle Charging Station Bonding & Other Material Solutions

Electric vehicles (EV) have changed the automotive industry forever. And as demand for EVs rises, so too does the need for a charging network that is more expansive, standardized, convenient and reliable. The U.S. Department of Energy estimates the country will need 1.25 million public charging ports by 2030 to support the country's growing EV fleet.

To meet this demand, EV charging station manufacturers need bonding solutions that are scalable, durable and easy to apply (either manually or through automation). They must also be versatile, providing additional benefits such as dielectric strength. Pressure-sensitive adhesive (PSA) tapes from Avery Dennison are just such a solution.

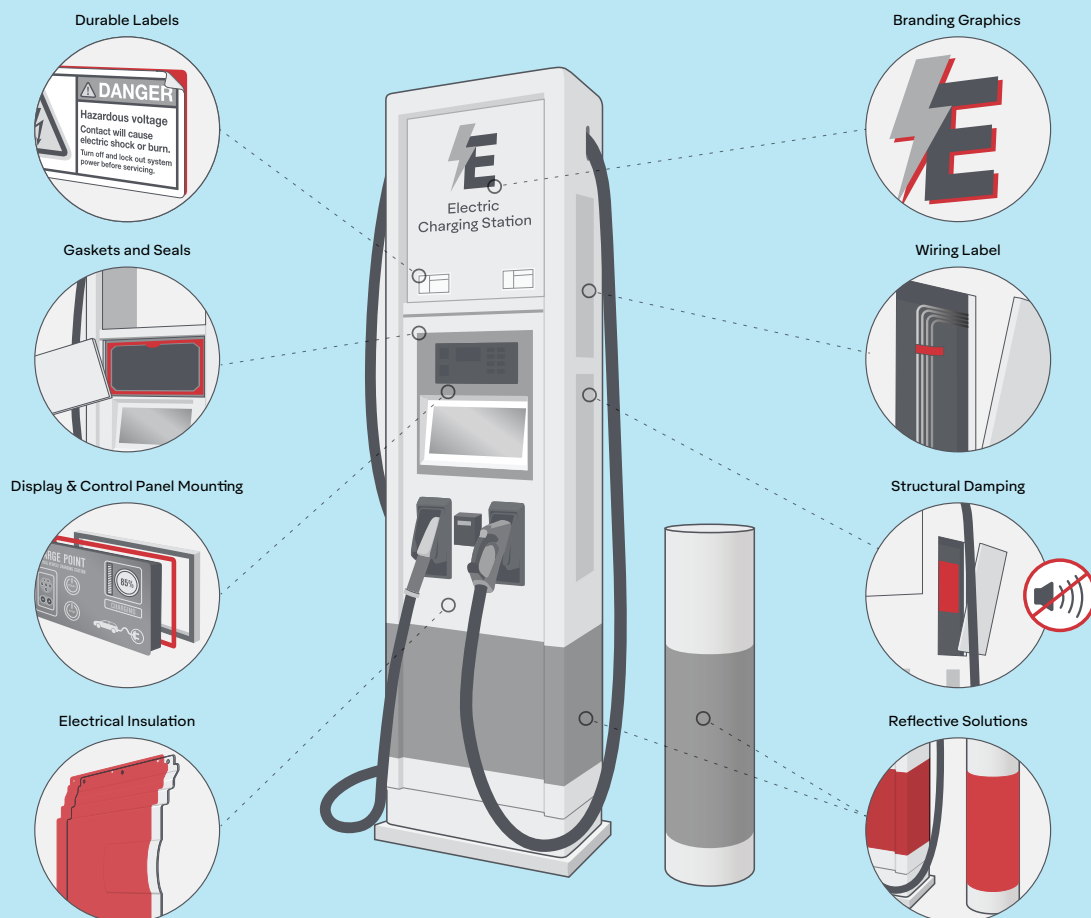


EV Charging Station Applications

Avery Dennison offers PSA tape, label, graphics and reflective materials for EV charging station applications.

- Gaskets and seals
- Display mounting
- Mounting of parts and components
- Overlay and membrane touch
- Structural damping
- Electrical insulation
- Safety and warning labels
- Station branding and directional signage
- Enhancing station, pathway and hazard visibility

PSA materials are available in a variety of options for adhesive formulation, carrier and liner. We can also collaborate to create customized tape, label, graphics and reflective constructions for unique needs.



Functional Tape Products

Application	Product	Adhesive Type	Construction	Thickness without Liner (mils)	Core Series™ Portfolio	UL® Certified
Structural Damping	FL 1002	General Purpose Rubber	Single Coated Foil	3.7	•	
	FL 0833	Cold Tough™ Acrylic	Single Coated Foil	4.8		
Gasket and Seal Bonding	FT 1126	Modified Acrylic	Transfer Tape	5.5	•	
	FBA 8960	General Purpose Acrylic	Double Coated PET	4.0	•	
	FBD 8393	High Shear Acrylic / High Shear Rubber Differential	Double Coated PET	3.9	•	
	FT 8299	High Performance Low VOC Acrylic	Double Coated Tissue	5.0	•	
Display and Control Panel Mounting	AFB™ 6164B	Acrylic Foam Bond	Double Coated Acrylic Foam	25.2		
	AFB™ 6610C	Acrylic Foam Bond	Double Coated Acrylic Foam	39.4		
	FM 2316	General Purpose Acrylic	Double Coated PE Foam	67.6	•	
	FM 2333	General Purpose Acrylic	Double Coated PE Foam	35.6	•	
	HPA™ 1905	High Performance Acrylic	Transfer Tape	4.9	•	•
Electrical Insulation	FT 0031	Pure Acrylic	Single Coated Stretch Film	4.1		
	FT 0333	Flame Tough™ Acrylic	Single Coated PET	2.0		

*The Core Series™ Portfolio is designed to make it easy for converters to quickly identify a product recommendation for their customers.

Reflective Material Products

Application	Product	Adhesive Type	Construction	Thickness without Liner (mils)	Durability	Certification
Reflective Solutions	V-2000	Permanent Pressure Sensitive Adhesive	Acrylic with Glass Microspheres Retroreflective Film	5.3-6.3	3 years	ASTM D4956 Type 1
	V-4000	Permanent Pressure Sensitive Adhesive	Vinyl Retroreflective Film	7.1-8.1	7 years	ASTM D4956-19
	M-0500-D	Permanent Pressure Sensitive Adhesive	High-Gloss PVC Retroreflective Film	5-7	3 years	
	T-1500-B	Permanent Pressure Sensitive Adhesive	High-Gloss PVC Retroreflective Film	7-9	7 years	ASTM D4956 Type I
	T-6500	Permanent Pressure Sensitive Adhesive	High-Gloss Acrylic Retroreflective Film	14-19	10 years	ASTM D4956 Type III/IV

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Label Material Products

Application	Product	Adhesive Type	Construction	Thickness without Liner (mils)	UL® Certified
Exterior Labels	76660	High Strength	Single Coated Matte Chrome PET	3.0	•
	76656	High Strength	Single Coated White PET	3.0	•
	79453	Acrylic Rubber Hybrid	Single Coated White PET	3.6	•
	79534	Acrylic Rubber Hybrid	Single Coated Matte Chrome PET	3.8	•
Interior Labels	77920	Acrylic	Single Coated White PET	3.0	•
	79875	Acrylic	Wrap-Around Clear Vinyl	4.4	•
	C0734	High Tack	Wrap-Around White BOPP	3.1	•
	77920	Acrylic	White PET Flag	3.0	•

Graphics Film Material Products

Application	Product	Adhesive Type	Finish	Face Thickness (mils)	Expected Durability (Vertical Exposure)	Application Surface	Certification
Branding Graphics	MPI 2105 Easy Apply™ RS	Long-term Removable	Gloss	3.1	7 years (unprinted)	Flat, Simple Curves	ASTM E-84-04 Self-Extinguishing
	DOL 2000 Series	Permanent	Gloss, Luster, Matte	3.1	Up to 3 years when used with MPI 2105	Flat, Simple Curves	ASTM E-84 Class 1 or A
	HP750 High-Performance Opaque Cut Vinyl Film	Patented Advanced Acrylic Adhesive Technology (PAAAT)	Gloss	3.0	Colors, Black, and White: 6 years	Flat, Simple Curves	FMVSS 302 Self-Extinguishing

- **MPI 2105:**
 - **Faster and More Efficient Install:** Easy Apply adhesive system with air egress channels for fast bubble and wrinkle free application while RS adhesive allows graphics to be repositioned during application
 - **Better Dimensional Stability:** MPI 2105 offers significantly better dimensional stability and less shrinkage than most major competitive products and applications.
- **HP750:**
 - **Best-in-Class Weeding:** Patented Advanced Acrylic Adhesive Technology (PAAAT) enhances shelf life and results in best-in-class weeding

Beyond Bonding: Expansive product selection, customization and testing capabilities

This Avery Dennison portfolio includes a selection of PSA tape, graphic, label and reflective solutions designed for common EV charging station applications. But innovative bonding products are just the beginning of all we offer.

Collaboration

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

Testing

- ISO 9000, ISO 17025 and ISO9001-2015 accredited laboratories
- UL® 969 and 50e certified laboratory
- Industry-standard testing and custom application testing
- Mechanical and analytical testing capabilities
- PSA bulk property testing (peel, tack and shear)
- Environmental conditioning (temperature, humidity, UV, chemical and more)

We welcome the opportunity to collaborate with you to develop custom tape solutions. You'll enjoy access to testing facilities and subject matter experts who understand your challenges. We can work together to produce one-of-a-kind products that help give your business an edge.

To learn more about our EV Charging Station Portfolio, contact your Avery Dennison Performance Tapes account manager or visit www.tapes.averydennison.com.



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