

Double-sided tapes for bonding seat and steering wheel heaters

Automotive Electronics Solutions

OEMs are incorporating more features to make drivers and passengers comfortable. Once strictly a luxury feature, seat and steering wheel heaters are now standard in many vehicles.

Avery Dennison offers double-sided tapes for bonding these heaters within seats and steering wheels.

- Low VOC options
- High adhesion to heater felts, seat cushion materials, and steering wheel padding
- Multiple constructions are available, including transfer tapes and scrim carriers



Seat and Steering Wheel Heater Bonding Tape Product Portfolio

| Application | Product | Adhesive Type | Construction | Thickness without liner (mils) | Thickness without liner (µm) | Core Series™ Portfolio* |
|---|-------------|-----------------------|-----------------------|--------------------------------|------------------------------|-------------------------|
| Seat and Steering Wheel Heater Bonding | FT 1143 | Pure Acrylic | Transfer Tape | 3.1 | 76 | |
| | FT 2150 | Low VOC, Pure Acrylic | Transfer Tape | 2.3 | 56 | |
| | FBA 1118 GL | Low VOC Acrylic | Transfer Tape | 2.5 | 61 | • |
| | FT 666 | Rubber | Transfer Tape + Scrim | 9.5 | 232 | |

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

Automotive Electronics Solutions

Avery Dennison Automotive Electronics solutions address engineering challenges and meet OEM specifications related to vehicle electronics systems.

Electrification and electronics are key trends in automotive design

Drivers are demanding greater automotive safety, convenience and entertainment. These demands have prompted the emergence of vehicle electronic applications such as advanced driver-assistance systems (ADAS), driver information features, telematics services and infotainment hubs.

OEMs and tier suppliers are thus challenged to create electronics systems that are easy to assemble, lightweight and durable. These systems also need to perform flawlessly throughout a vehicle's life and across a wide range of environmental conditions.

Avery Dennison Automotive Electronics Tapes Portfolio

The Avery Dennison Automotive Electronics portfolio addresses some of the challenges related to assembly, durability and sensing accuracy for many applications.

Our solutions can help OEMs and tier suppliers:



Optimize Design and Assembly

Tapes can replace mechanical fastening methods with adhesive tapes offering a thinner profile, lighter weight, repositionability and instant bond.



Improve Durability

Tapes can seal and fill gaps for ingress protection, reduce vibrations and noise, and provide clearer vision.



Manage Vision and Sensing Challenges

Tapes can reduce glare, manage light and bond PTC heaters to reduce ice build-up on sensitive electronics.



Avery Dennison Automotive Electronics Tapes Product Portfolio

| Application | Product | Adhesive Type | Construction | Thickness without liner (mils) | Thickness without liner (µm) | Core Series™ Portfolio* |
|--|--------------|--|----------------------------|--------------------------------|------------------------------|-------------------------|
| Flexible PTC Heater Bonding and Gap Filling | HPA™ 1902 | High Performance Acrylic | Transfer Tape | 2.4 | 59 | • |
| | FT 1123 | General Purpose Acrylic | Transfer Tape | 3.3 | 81 | • |
| | FBA 1118 GL | Low VOC Acrylic | Transfer Tape | 2.5 | 61 | • |
| | FM 2465 WPET | High Performance Acrylic | Double Coated PE Foam | 37.0 | 903 | |
| | FM 2454 | High Shear Acrylic | Double Coated PE Foam | 35.2 | 859 | • |
| | AFB™ 22080B | Acrylic Foam Bond | Double Coated Acrylic Foam | 31.5 | 769 | |
| Automotive Sensor Mounting and Sealing | FM 2465 WPET | High Performance Acrylic | Double Coated PE Foam | 37.0 | 903 | |
| | FM 2454 | High Shear Acrylic | Double Coated PE Foam | 35.2 | 859 | • |
| | FM 2116 | General Purpose Acrylic | Double Coated PE Foam | 68.0 | 1659 | • |
| | FM 2132 | General Purpose Acrylic | Double Coated PE Foam | 36.0 | 878 | • |
| | AFB™ 22080B | Acrylic Foam Bond | Double Coated Acrylic Foam | 31.5 | 769 | |
| | AFB™ 22110B | Acrylic Foam Bond | Double Coated Acrylic Foam | 43.3 | 1057 | |
| Automotive Electronics Foam Gasket Bonding | FT 8270 | High Performance Low VOC Acrylic | Double Coated Tissue | 7.0 | 171 | • |
| | FT 1149X | High Performance Low VOC Acrylic | Transfer Tape | 5.0 | 122 | • |
| | FT 1126 | General Purpose Acrylic | Transfer Tape | 5.2 | 127 | • |
| | FT 8327 | General Purpose Rubber / High Shear Rubber | Double Coated PET | 4.6 | 112 | • |
| | FBA 8218 GL | Low VOC Acrylic | Double Coated Tissue | 5.8 | 142 | • |
| | FT 1118 GL | Low VOC Acrylic | Transfer Tape | 2.5 | 61 | • |
| Glare Reduction for ADAS Cameras | FT 0900X | High Performance Low VOC Acrylic | Single Coated Flock | 35.8 | 874 | • |
| | FT BNW 1079A | Modified Acrylic | Single Coated Felt | 43.4 | 1059 | |
| PTFE Vent Bonding | FT 9350 | Silicone | Double Coated PET | 6.0 | 146 | |
| | FT 9302 SF | Silicone / General Purpose Acrylic | Double Coated PET | 5.7 | 139 | • |
| Flexible Detection Sensor Bonding | FT 1149X | High Performance Low VOC Acrylic | Transfer Tape | 5.0 | 122 | • |
| | FT 1143 | Pure Acrylic | Transfer Tape | 3.1 | 76 | |
| | FBA 1118 GL | Low VOC Acrylic | Transfer Tape | 2.5 | 61 | • |
| | HPA™ 1905 | High Performance Acrylic | Transfer Tape | 4.9 | 120 | • |
| Electronic Mirror and Display Mounting | FM 2454 | High Shear Acrylic | Double Coated PE Foam | 35.2 | 859 | • |
| | FM 2465 WPET | High Performance Acrylic | Double Coated PE Foam | 37.0 | 903 | |
| | FM 2405L | High Shear Acrylic | Double Coated PE Foam | 19.7 | 481 | |
| | FM 2454C | High Shear Acrylic | Double Coated PE Foam | 35.1 | 856 | |
| | AFB™ 22080B | Acrylic Foam Bond | Double Coated Acrylic Foam | 31.5 | 769 | |
| | AFB™ 22110B | Acrylic Foam Bond | Double Coated Acrylic Foam | 43.3 | 1057 | |
| Wire Harness Securement and Protection | FT 0900X | High Performance Low VOC Acrylic | Single Coated Flock | 35.8 | 874 | • |
| | FT BNW 1079A | Modified Acrylic | Single Coated Felt | 43.4 | 1059 | |
| | HPA™ 0316 | High Performance | Single Coated PET | 8.0 | 195 | |

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

The Avery Dennison Automotive Electronics 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.

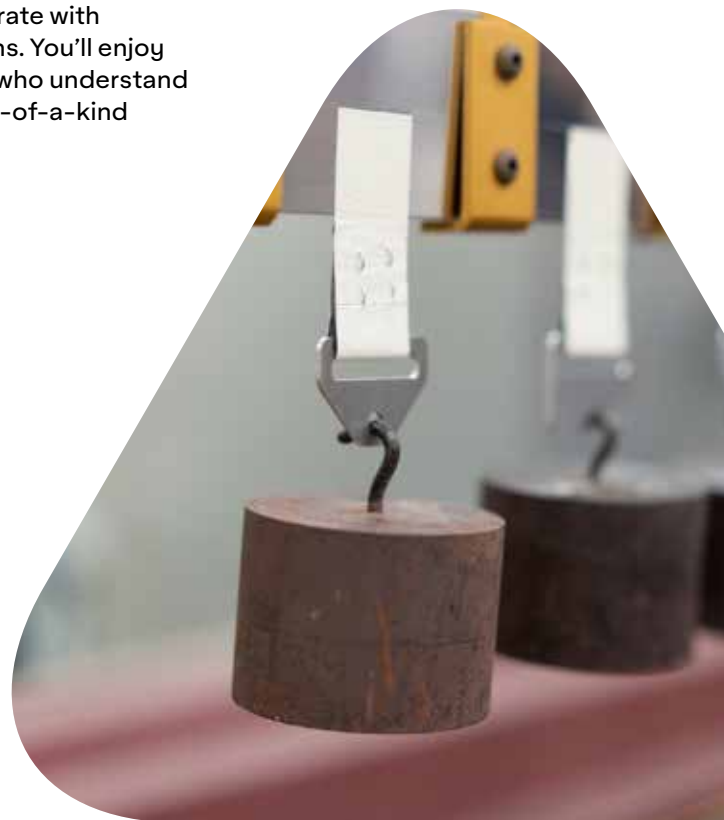
Beyond bonding means we also welcome the opportunity to collaborate with automotive OEMs and tier suppliers to develop custom tape solutions. You'll enjoy access to testing facilities and pressure-sensitive adhesive experts who understand the challenges engineers face. We can work together to produce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

Collaboration

- Global reach
- New product development for developing custom solutions for 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 testing 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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