

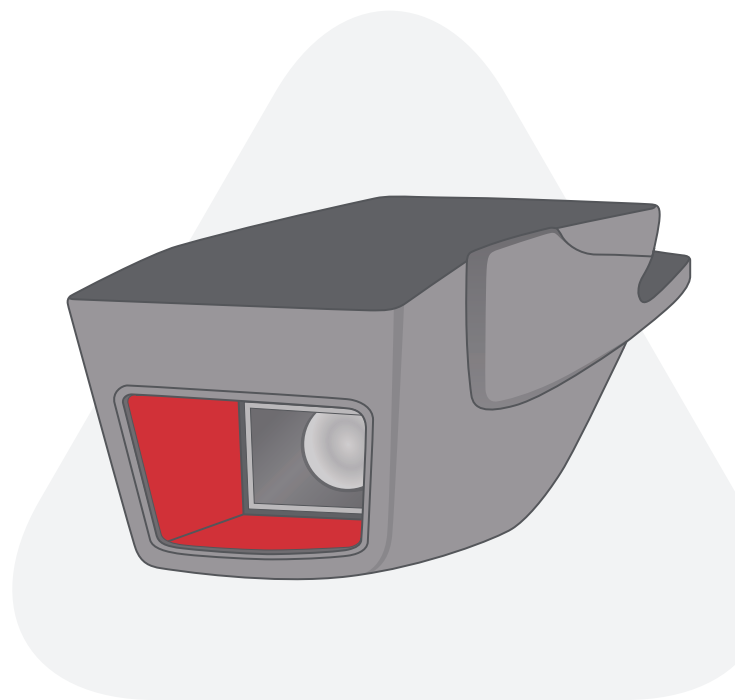
# Glare Reduction for ADAS Cameras

## Automotive Electronics Solutions

Advanced driver-assistance system (ADAS) features are increasingly popular in modern vehicle design. These features include lane departure warning, lane keeping assistance and automatic emergency braking. For these features to work optimally, their cameras must not be compromised by glare from sunlight and other sources.

Avery Dennison offers single-coated tapes with light-absorbing and UV light-resistant facestocks. These can be positioned to reduce the glare striking an ADAS camera's lens, helping to ensure the feature works as intended.

- Single-coated pressure-sensitive adhesive tapes with light-absorbent flock or felt facestocks
- Flexible and easily die cuttable for tight design spaces
- Solvent-free adhesive options for low VOC requirements
- Tapes can also help reduce buzz, squeak and rattle between rigid components



## Glare Reduction for ADAS Cameras Tape Product Portfolio

Application	Product	Adhesive Type	Construction	Thickness without liner (mils)	Thickness without liner ( $\mu\text{m}$ )	Core Series™ Portfolio*
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	

\* 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 heater films 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*
<b>Flexible Heater Film Bonding and Gap Filling</b>	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	
<b>Automotive Sensor Mounting and Sealing</b>	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	
<b>Automotive Electronics Foam Gasket Bonding</b>	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	•
<b>PTFE Vent Bonding</b>	FT 9302 SF	Silicone / General Purpose Acrylic	Double Coated PET	5.7	139	•
<b>Flexible Detection Sensor Bonding</b>	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	•
<b>Electronic Mirror and Display Mounting</b>	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	
<b>Seat and Steering Wheel Heater Bonding</b>	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	
<b>Wire Harness Securement and Protection</b>	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	

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

## 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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