

GORE® Automotive Vents

for exterior lighting

AVS 9



LIFE-OF-VEHICLE PERFORMANCE FROM AN INDUSTRY-STANDARD VENTING SOLUTION

GORE® Vent AVS 9, for adhesive installation, is a proven performer in exterior lighting applications worldwide. It reliably provides life-of-vehicle condensation reduction, ingress protection and pressure equalization ... in a footprint that's become an industry standard.

Product Name (order number for samples)	AVS 9
Order Number (Multi-up configuration)	VE0020GMC
Order Number (One-up configuration)	VE2068

Product Performance Characteristics

Main vent functionality	<ul style="list-style-type: none">• Condensation reduction• Pressure equalization• Dust/dirt/debris protection• Water intrusion protection
Minimum airflow (per part) at 70 mbar (1 psi)	> 22.2 l/h
Typical airflow (per part) at 70 mbar (1 psi)	45.4 l/h
Water Entry Pressure (assembly)	> 345 mbar (> 5.0 psi) for 60 sec
Moisture Vapor Transmission Rate ¹	609 mg moisture/day
Operating temperatures	-40 °C to +125 °C
Membrane type	100% ePTFE (AM2XX)
Membrane characteristic	Hydrophobic and oleophobic
Pressure-sensitive adhesive	AD103 Silicone
IP Protection ² :	
(a) Dust	(a) IP6KX
(b) Water immersion	(b) IPX7
(c) Spray resistance	(c) with target frame: IPX6K ³

1. Based on ASTM E96 Water method. MVTR is represented by average value.

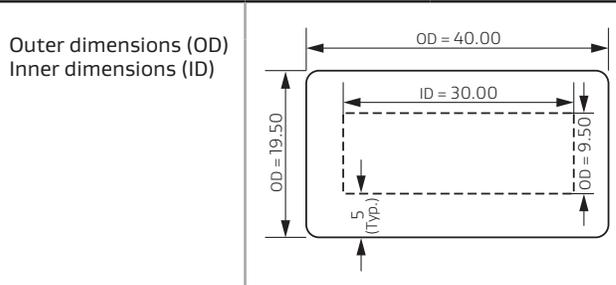
2. According to ISO20653:2013.

3. IPX6K: Test performed on AVS 9 with protective target frame and spray angle of 2.5 degrees from vent mounting surfaces.

A versatile venting solution:

- Use of target frames enables easy integration
- Available in one-up and multi-up formats, for automated, semi-automated or manual installation.
- Suitable for all lamp types (LED, Xenon, Halogen).
- Oleophobic and hydrophobic protection.

Design & Dimensions (mm)



Together, improving life



Storage and Handling Recommendations

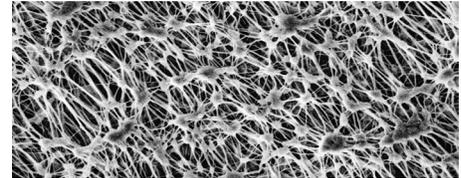
W. L. Gore & Associates recommends that adhesive parts be stored in cool dry conditions (22 °C/50% RH) and out of direct sunlight. Adhesive vents are most easily removed from the product carrier within one year of packaging date.

Why the GORE Membrane matters

Only GORE® Automotive Vents incorporate the performance benefits of the GORE Membrane. Made of expanded polytetrafluoroethylene (ePTFE), it's engineered with billions of pores. These pores are 700X larger than an air molecule, to ensure reliable airflow and pressure equalization. Yet at 20,000X smaller than a drop of water, these pores effectively block entry of liquids, dirt and debris.

The GORE Membrane is:

- chemically inert
- non-shedding
- UV-resistant
- temperature-resistant
- hydrophobic and oleophobic



The GORE Membrane magnified 40,000 times

What GORE® Automotive Vents can offer you

GORE® Automotive Vents deliver innovative technology, backed by decades of research and testing. Our product portfolio has proven itself in the harshest environments: literally billions of our vents have been installed in automotive applications worldwide. Today, virtually every global OEM trusts GORE® Automotive Vents to extend the reliability and longevity of their exterior lighting, electronics and powertrain products and assemblies.

Our vents have been engineered with varied properties to fit in any automotive application. With technical support and testing centers in the US, Germany, Japan and China, our application engineers are easily accessible — and ready to work in close partnership with your design team, from product concept through manufacturing integration.

Contact Us

To discuss options and solutions for your newest application, call your local Gore representative or send your inquiry from our website: gore.com/autovents

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