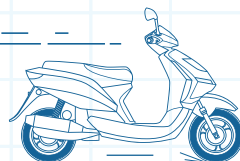
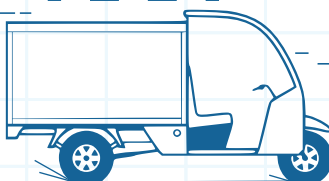
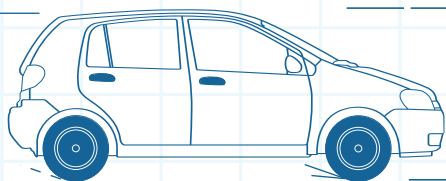
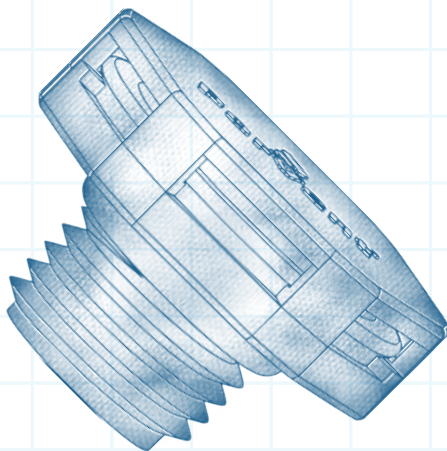
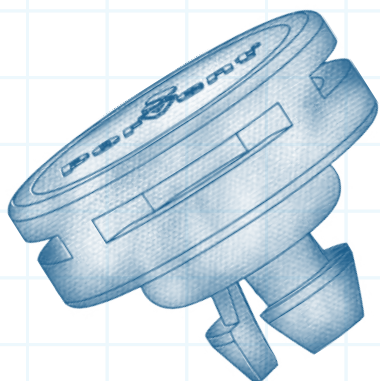
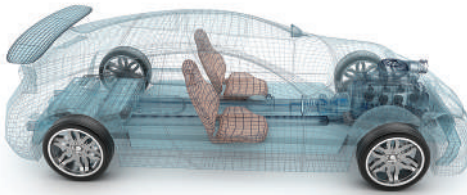




AUTOMOTIVE VENTS



AUTOMOTIVE APPLICATIONS



POWERTRAIN COMPONENTS

Motors
Inverter/Converter
Gearbox/Transmission
e-Axle
Power Distribution Unit

CONTROL UNITS

MCU TCU
ECU ABS
VCU EPS

BATTERY PACKS
ON-BOARD CHARGER
AUTOMOTIVE LIGHTING

INSTRUMENT CLUSTERS
HORNS
FLUID RESERVOIRS

SENSORS
Radar Sensor
Humidity Sensor
Position Sensor

MOTORS
Traction Motor
Starter Motor
Wiper Motor
Window Motor
Electric Pump Motor

Pressure Release Vents are essential for various automotive components, and PorVent® offers a broad spectrum of solutions to fulfill this need. PorVent® specializes in the innovation of microporous membrane based venting solutions. Renowned automotive OEMs and component manufacturers rely on PorVent® Automotive Vents. Our solutions ensure efficient pressure equalization, manage condensation, and offer reliable protection against water, dust, oil, and other contaminants.

AUTOMOTIVE VENT FUNCTIONS



Ingress Protection: Protect sensitive devices such as sensors, ECUs, battery packs, and powertrain electronics from damage caused by moisture, particles, and liquids.



Reduce Condensation: Reduce the risk of condensation and corrosion inside the enclosure, which can affect the functionality and reliability of the device.

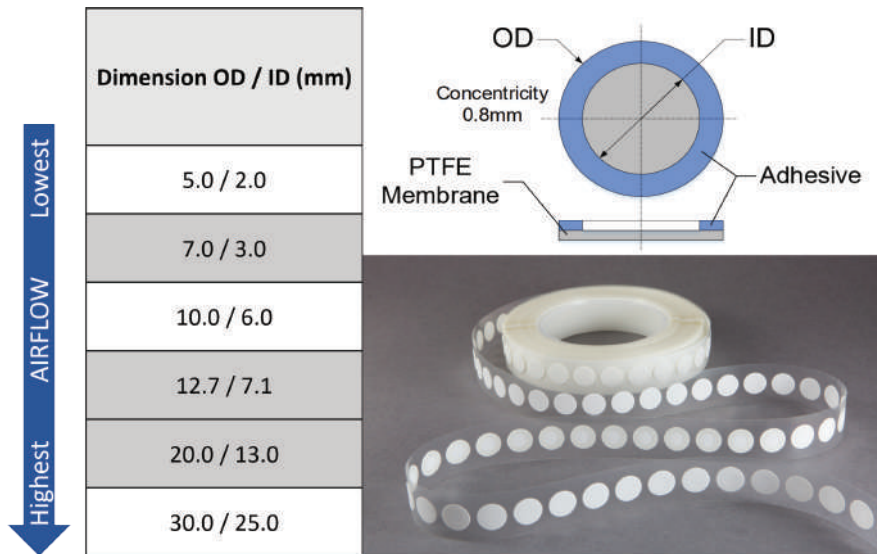


Constant Pressure Equalisation: Prevent pressure build-up or vacuum inside the enclosure, which can cause deformation, leakage, or failure of the device.



Thermal Management: Improve the performance and efficiency of the device by allowing heat dissipation and air circulation.













PORVENT® ADHESIVE DISCS



- Durable, versatile and easy to apply
- Multiple diameters and constructions to fit various applications and environments
- Adhesive discs are extremely thin and can easily be used in enclosures with limited spaces or complex designs
- Strong and durable automotive grade adhesive that can bond to various materials



PORVENT® PRESSURE RELEASE VENTS

Screw-in Vents			Dual Vents		
PRODUCT	PRODUCT CODE	SPECIFICATION	PRODUCT	PRODUCT CODE	SPECIFICATION
	PVSVM10	Material : PA6 M10 x 1.5 6g*		PVSDV-M1202B-AL	Material : AL HE30 M12 x 1.5 6g
	PVSVM12	Material : PA6 M12 x 1.5 6g		PVSDV-M2002B-AL	Material : AL HE30 M20 x 1.5 6g
	PVSVM12-SS	Material: SS316L M12 x 1.5 6g	Snap-fit Vents		
	PVSVM12-AL	Material : AL HE30 M12 x 1.5 6g	PRODUCT	PRODUCT CODE	SPECIFICATION
	PVSVM14	Material: PA6 M14 x 1.5 6g		PVSF-S	Material: PA6 Wall Thickness: 4mm
	PVSVM20	Material : PA6 M20 x 1.5 6g		PVSF-M	Material: PBT GF15 Wall Thickness: 3.5mm
	PVSVM40	Material : PA6 M40 x 1.5 6g*	Press-fit Vents		
			PRODUCT	PRODUCT CODE	SPECIFICATION
				PVPF-S	Cap Material: PP Inner Material: TPE

* Lock nut not available for this specification.

PorVent® offers a wide range of screw-in, snap-fit and press-fit vents with different sizes, shapes, materials, and membrane options to suit your specific needs. We can help you choose a venting component that fits your enclosure, material, environment, protection needs and required airflow.

CERTIFIED TO MEET INDUSTRY STANDARDS

Water & Dust ingress : IP66, 67 & 68#, IP6K9K

Flammability : UL 94 V-0, 5VA

Outdoor suitability : UL 746C f2

Thermal cycle : IEC 60068-2-14:2009

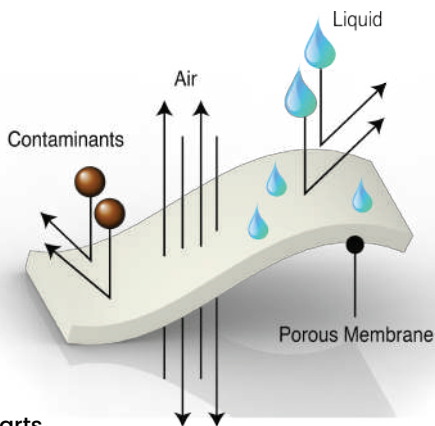
Salt Fog* : IEC 60068-2-11

Vibration : AIS 156 (Annexure 8A)

Mechanical Impact* : IK10



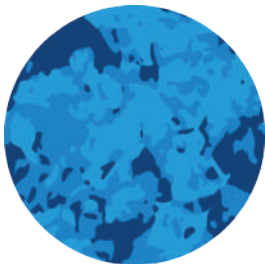
#IP68 is a user defined test | *applicable to metal parts



MEMBRANE TECHNOLOGY

SINTERED PTFE

Sintered PTFE (sPTFE) membranes are made from pure PTFE powder that is heated and pressed to create a porous structure. This process enhances the material's mechanical properties without altering its inherent characteristics.

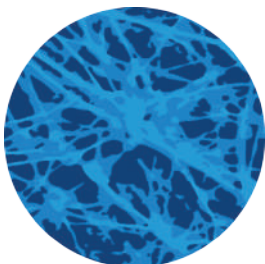


- Hydrophobic and Grade 8 Oleophobic
- Thermal Stability: Withstands -40°C to 260°C
- Unique Property: Ability to flex under pressure
- Durability: Battle tested against harsh conditions
- High density porous structure
- 100% PTFE with no additives or supportive layers
- Ease of Use: Designed for straightforward handling and use

Best suited for: EV Battery Packs, Gearbox, Motors, Powertrain Components, Fluid Reservoirs

EXPANDED PTFE

Expanded PTFE (ePTFE) is a microporous form of PTFE that is created by expanding the PTFE material to form a porous structure. This process enhances its flexibility and breathability while maintaining the inherent properties of PTFE.



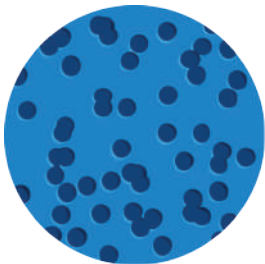
- Hydrophobic and >6 Grade Oleophobic
- Thermal Stability (PET Backed): Withstands -40°C to 180°
- Thermal Stability (PP Backed): Withstands -40°C to 100°C
- Lamination Options: Unlaminated, PP or PET
- Airflow: Optimized for breathability and efficiency
- Pressure Tolerance: Withstands high water entry pressure
- Weldability: Seamless integration into diverse systems

Best suited for: Automotive Power Electronics, Automotive Lights, Controllers, Power Distribution Units, Horns

PET TRACK ETCHED MEMBRANE

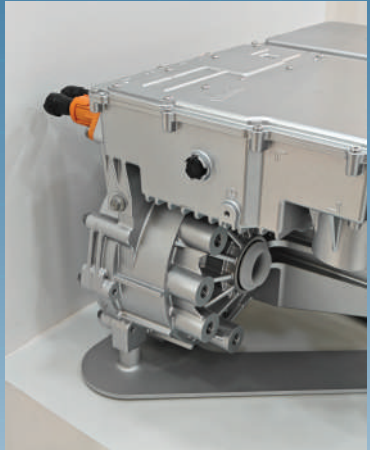
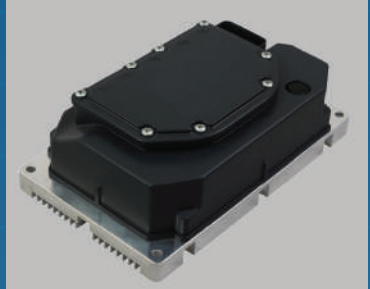
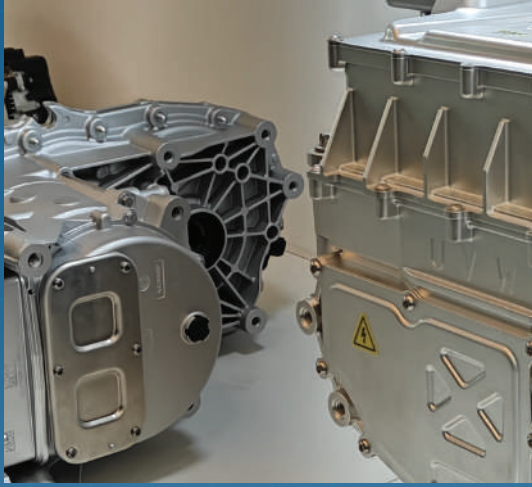


PET track-etched membranes are microporous membranes created by ion beaming process on a PET film with accelerated ions, creating tracks that are then chemically etched to form pores. This process results in a membrane with precisely defined pore sizes and densities.



- Hydrophobic
- Thermal Stability: Withstands -40°C to 160°C
- Airflow Tolerance Precision: Offers finest control over airflow range
- Environmental, Health & Safety : Does not contain Per- and polyfluoroalkyl substances (PFAS Free)

Best suited to: Automotive Lights, Sensors, Battery Packs, Fuel Cells



Delivering innovation
driven solutions to
the world



PREFERRED
CONVERTER



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