

POREX® ELECTRONICS AND AUTOMOTIVE

POREX® SENSOR COMPONENTS

Global Leader in Porous
Sensor Components





FASTER, BETTER & COST-EFFECTIVE FUNCTIONAL SENSOR COMPONENTS

POREX® has been the leader in porous technologies for almost 60 years, and offers a wide range of components for the gas, pressure, humidity, and optical sensor industries. A culture of collaboration empowers our people, and our clients, with the information they need to seize the competitive advantage and execute the best solutions and strategies.

POREX® Virtek™ PTFE Membrane Materials

- Tough & durable



Industry standard for:

- Dust Filters
- Diffusion Membranes
- Protective Vents
- Catalyst Carriers

POREX® Absorptive Filters

- Lead & binder free



Commonly used for removal of problem gases, such as:

- H₂S
- SO₂
- HMDS & Siloxanes
- Organic Compounds
- Alcohols
- And Many Other Chemicals

POREX® Porous Polyethylene and Polypropylene

- High MVTR & durable



Standard or custom shapes for:

- Dust Covers
- Vent Discs & Plugs
- Humidity Sensor Covers
- Pressure Equilizational Plugs

POREX® Fiber and Foam Media

- Excellent liquid retention & delivery



High-performance products for:

- Electrolyte Reservoirs
- Dust Covers
- Wicks
- Vents

APPLICATION AREAS

Gas Sensors

Pressure Sensors

Humidity Sensors

Temperature Sensors

IR Sensors

MEMS

Smoke & Fire

Microwave

pH Electrode

Acoustic

Optical Sensors

Many Other Applications

POREX Virtek™ PTFE Membrane Materials

POREX Virtek™ Sintered PTFE membrane is highly recognized in the sensor market for its outstanding performances and durability.

POREX Virtek™ PTFE Materials for Sensors

Product #	WEP mbar	Airflow l/hr/cm ² @70mbar	Thickness (mm)	Filtration Efficiency** >99.99%	Hydrophobic	Typical Application
PMV10	270	125	0.13	0.50 μ	Yes	Dust Filter
PMV10L	270	85	0.30	0.50 μ	Yes	Dust Filter
PMG15	400	70	0.18	0.40 μ	Yes	Catalyst Carrier
PMG20	750	15	0.10	0.20 μ	Yes	Catalyst Carrier
PMG25	1000	5	0.19	0.19 μ	Yes	Catalyst Carrier

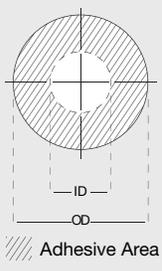
WEP = Water Entry Pressure
RoHS, WEEE, REACH COMPLIANT

**Testing results available upon request

Properties are typical and not meant for specifications. Properties for membrane only, selected options and adhesives may affect properties.

STOCK PRODUCT OFFERING – PROTECTIVE ADHESIVE VENTS

Dimensions OD/ID (mm)*	Material Series			
	PMV10L	PMV15	PMV20	PMV30
7.0/3.0 (N)	PMV10LN	PMV15N	PMV20N	PMV30N
10.0/7.0 (I)	PMV10LI	PMV15I	PMV20I	PMV30I
12.7/7.1 (W)	PMV10LW	PMV15W	PMV20W	PMV30W
20.0/13.0 (C)	PMV10LC	PMV15C	PMV20C	PMV30C




POREX VIRTEK™ SINTERED PTFE

- Durable and Reliable Dust Cover
- Printable Surfaces (metals, inks, etc.)
- Minimal Shrinkage During Curing Process
- Low Failure Rate in Assembly Process
- Pure PTFE
- Ultrasonic or Heat Weldable
- Made in Class 100K Clean Room



porex.com

Porex Corporation

500 Bohannon Road, Fairburn, GA 30213 USA
T. +1 770 964 1421 F. +1 770 969 0954
info.porex.amrs@filtrationgroup.com

Porex Technologies GmbH

Strangenhäuschen 30, 52070 Aachen, Germany
T. +49 241 910525-0 F. +49 241 910525-16
info.porex.emea@filtrationgroup.com

Porex Technologies Sdn Bhd

Lot PT 74, Jln Hulu Tinggi 26/6, Sek. 26,
Hicom Industrial Park, 40400 Shah Alam, Selangor, Malaysia
T. +603 5191 3308 F. +603 5192 3308
info.porex.apac@filtrationgroup.com