

ACHIEVE RAPID PRESSURE EQUALIZATION

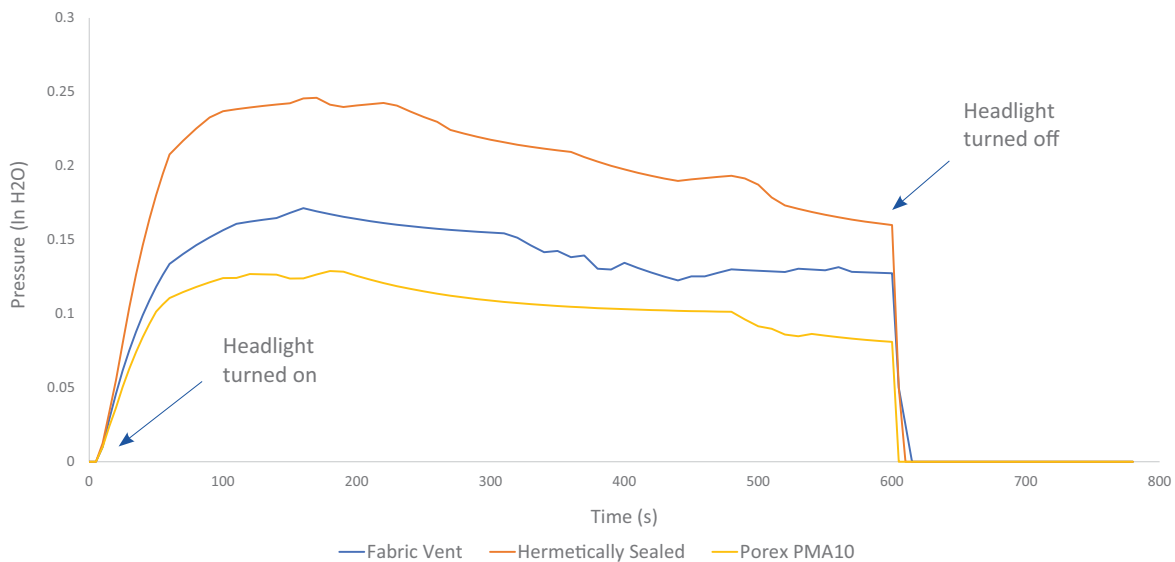
With POREX® Ingress Protection (IP) Rated Vents

POREX® Virtek™ automotive vents provide consistent pressure equalization for a wide variety of automotive applications such as exterior lighting, automotive electronics and mechanical systems. In addition to pressure

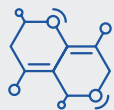
equalization, vents form a reliable barrier from fine dust, water and automotive fluids. POREX® Virtek™ vents come in adhesive discs and sheets as well as custom 2D and 3D forms and shapes.

Global Automotive OEMs rely on Porex components for design flexibility, durability, and functionality required in demanding automotive applications.

Pressure vs Time Performance of Vents During Headlight Testing



KEY ADVANTAGES OF POREX® VIRTEK™ PTFE VERSUS EXPANDED PTFE



Stronger

Sintered structure is more physically robust (strong in all directions) and will not collapse



More Durable

Structure will not have its performance degrade under moderate physical pressure



Easy to Assemble

Omni-directional performance removes risk of installing it in the wrong orientation

Automotive Vents Properties and Ratings

OLEOPHOBIC PRODUCTS

Typical Membrane Properties and Ratings									
Material	IP Rating †	WEP mbar	Airflow l/hr/cm ² @70mbar	Filtration Efficiency** >99.99%	Thickness (mm)	Max Operating Temp °C	Salt Fog ¹	Hydrophobic	Oleophobic (Grade 8)
PMA10	64, 67, 68	380	70	0.4 μ	0.18	260	No Pen.	Yes	Yes
PMA15	65, 67, 68	520	34	0.1 μ	0.25	260	No Pen.	Yes	Yes
PMA20	65, 66, 67, 68	1000	5	0.19 μ	0.19	260	No Pen.	Yes	Yes

Membrane Chemical Resistance	
Material	Chemical Resistance
PMA10	Highly resistant to typical automotive fluids and gases
PMA15	Highly resistant to typical automotive fluids and gases
PMA20	Highly resistant to typical automotive fluids and gases

WEP = Water Entry Pressure
 *F2 Rating Applies If There is Water Submersion
 ** According to IEST RP-CC007.2 2009
 ***Laminated Polyolefin Mesh Backing
 Will Pass Condition Dependent
 † IEC STD. 60529, IP 68 is a User Defined Test
 ‡ Oleophobic Grade 8, AATCC TM 118
 RoHS, WEEE, REACH COMPLIANT

Testing Results Available Upon Request

HYDROPHOBIC PRODUCTS

Typical Membrane Properties and Ratings								
Material	IP Rating †	WEP mbar	Airflow l/hr/cm ² @70mbar	Filtration Efficiency** >99.99%	Thickness (mm)	Max Operating Temp °C	UL-94/746C*	Salt Fog
PMV10	64, 67, 68	270	125	0.5 μ	0.13	260	V-0-f1	No Pen.
PMV10L***	64, 67, 68	270	85	0.5 μ	0.30	100	-	No Pen.
PMV15	64, 67, 68	380	70	0.4 μ	0.18	260	V-0-f1	No Pen.
PMV15B***	64, 67, 68	380	42	0.4 μ	0.31	100	-	No Pen.
‡PMV15T	64, 67, 68	380	70	0.4 μ	0.18	260	-	No Pen.
PMV20	64, 65, 68	520	34	0.1 μ	0.25	260	V-0-f1	No Pen.
PMV20B***	64, 65, 68	520	20	0.1 μ	0.38	100	-	No Pen.
PMV25	65, 67, 68	750	15	0.2 μ	0.10	260	V-0-f1	No Pen.
PMV30	65, 66, 67, 68	1000	4.5	0.1 μ	0.25	260	V-0-f1	No Pen.



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