

POREX® Virtek™

IP-Rated Protection Vents



Key Benefits

- IP 64, 65, 66, 67 & 68 rated
- UL 94 V-0, 5VA and UL 746C f2 approvals
- Robust sintered porous structure (safe to handle)
- Compatible with ultrasonic and thermal welding, as well as insert molding
- UV and weather resistant
- Chemically inert (Pure PTFE)
- Thermally resistant (500°F / 260°C continuous use)
- No membrane support backing required
- Omni-directional flow (no backward installation)
- High tensile strength
- Resistance to thermal cycling fatigue
- Standard or custom sizes available
- Available in rolls, slit rolls, sheets, discs or adhesive backed shapes

Faster, better & cost-effective functional components.

POREX Virtek™ PTFE Protection Vents used in sealed devices allow pressure equalization and ventilization due to temperature changes and minimizes condensation while keeping dust, dirt, and liquid moisture out. POREX Virtek™ sintered PTFE membrane is UL 94 V-0 and UL 746C listed, tested to meet all IP ratings, and can meet NEMA or other test standards.

POREX Virtek™ PTFE Membrane Application Materials — Typical Properties

Application Material	IP Rating †	WEP mbar	Airflow l/hr/cm² @70mbar	Filtration Efficiency** >99.99%	Thickness mm	Max Operating Temp °C	UL-94/746C*	Salt Fog
PMV10	64,67	270	125	0.5 μ	0.13	260°C	V-0/f2	No pen.
PMV10L***	64,67	270	85	0.5 μ	0.30	100°C	-	No pen.
PMV15	64,67	380	70	0.4 μ	0.18	260°C	V-0/f2	No pen.
‡PMV15T	64,67	380	70	0.4 μ	0.18	260°C	-	No pen.
PMV20	64,65,68	520	34	0.1 μ	0.25	260°C	V-0/f2	No pen.
PMV25	65,67,68	750	15	0.2 μ	0.10	260°C	V-0/f2	No pen.
PMV30	65,66,67,68	1000	4.5	0.1 μ	0.25	260°C	V-0/f2	No pen.

WEP = Water Entry Pressure
 RoHS, WEEE, REACH Compliant
 ** According to IEST RP-CC007.2 2009
 ***Laminated polyolefin mesh backing

† IEC std. 60529, IP 68 is a user defined test; will pass condition dependent
 ‡ Oleophobic Grade 8, AATCC TM 118

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

Testing results available upon request

POREX Virtek™ PTFE Vent Plugs — Typical Properties

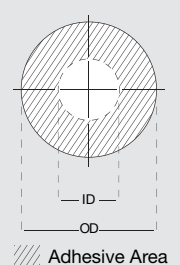
Part #	Diameter mm	Thickness mm	WEP mbar	IP Rating †	Vent Airflow l/hr/cm² @70mbar	Max Operating Temp °C	UL-94 Rating
PD103032	3.2	3.0	450	64,67,68	1.0	260°C	5VA, f1

- Plugs meet UL-94 5VA and F1 rating.
- Assembly methods include: press fit, over-moulding, compression seal, or flange welding.

POREX Virtek™ PTFE Protection Vents

STOCK PRODUCT OFFERING - ADHESIVE DISCS

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



Dimensions OD/ ID (mm)*	Material Series	
	PMV15	Feature
12.7/7.1 (W)	PMV15WH	High temperature adhesive
12.7/7.1 (W)	PMV15TWH	Oleophobic with high temp adhesive

*1000 discs/roll
N, I, W & C are size codes.

Many other standard and custom sizes available.
Please contact your local POREX® representative for availability
or email us at info.porex.amrs@filtrationgroup.com



Founded in 1961, POREX® is a pioneer and global leader in the development and manufacturing of sintered porous plastic products. POREX® is widely recognized for its material science expertise and proprietary manufacturing processes. We serve thousands of customers across more than 65 countries via operations in North America, Europe and Asia.

Constant innovation, outstanding technological resources, commitment to quality and dedication to customer service distinguish POREX® as the standard of performance.

For more information about Porex Corporation, visit porex.com or email us at electronics@porex.com.

Available Options and Codes	
Standard Acrylic Adhesive:	-40 to 85°C continuous. Approx. 190 micron thick
High Temperature Adhesive (H):	-40 to 150°C continuous. Approx. 130 micron thick
Oleophobic Treatment (T):	AATCC TM 118 test standard
Laminated Backing (L):	Polyolefin mesh support backing
Dimensions:	For a list of available dimensions please contact POREX
Liner:	Transparent film (standard) or Silicone release paper
Presentation:	Single standard; or multiple depending on OD



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