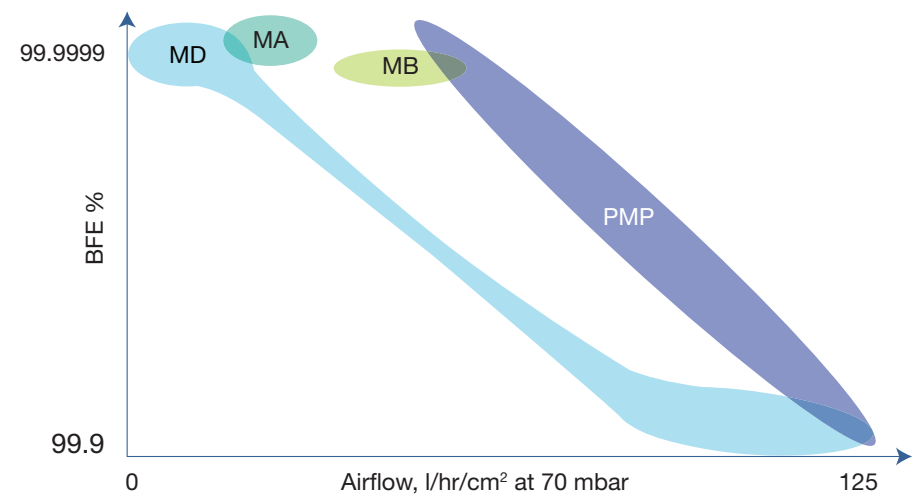
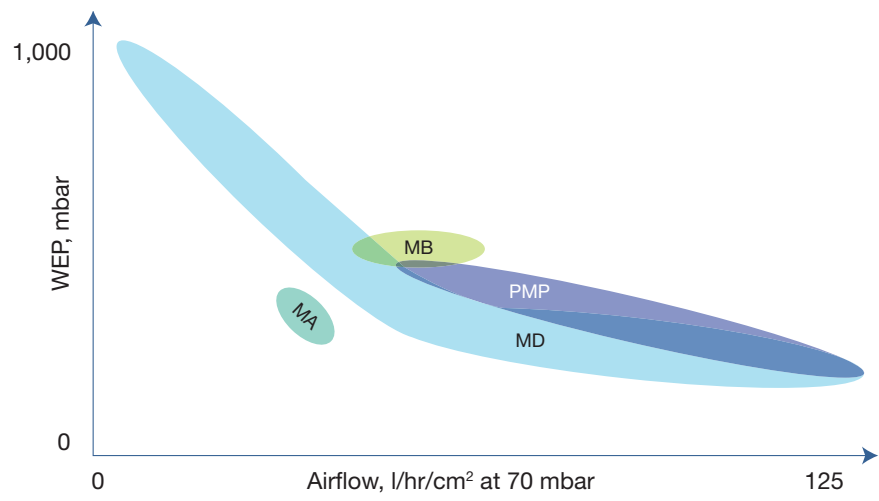


**POREX® Virtek™ Medical PTFE Bacterial Filtration Efficiency**



**POREX® Virtek™ Medical PTFE Water Entry Pressure**



**All's well that vents well**

Porex Corporation has launched a new porous material portfolio of medical-grade PTFE with high bacterial filtration efficiency over a wide range of airflows. Medical-grade porous PTFE can be used as specialty vents in medical devices for infection control and fluid management.

**P**orex porous membranes that are treated by a unique advanced process are a critical component of open and 3D medical device designs. Porex PTFE membranes provide several advantages over traditional membrane porous media: improved mechanical strength, low water vapor resistance, low air flow resistance and higher airflow for reusable. Because of the better structural properties, porous PTFE membranes can be easily assembled and integrated into medical devices. Several porous PTFE membranes have been widely adopted in applications that require reliable, reusable, sterile and diffusing functions.

Standard porous membranes can be made from:

Material	Thickness	Flow Rate (l/hr/cm²)	WEP (mbar)	BFE (%)
MA	0.10	100-125	1000	99.9999
MB	0.10	100-125	1000	99.9999
MD	0.10	100-125	200-300	99.9999
PMP	0.10	100-125	1000	99.9999



Scan the QR code to view the article!

Check out our article in Medical Device Developments "All's well that vents well"

POREX® MEDICAL

# POREX® VIRTEK™ MEDICAL PTFE MATERIALS & FILTERS

The Best PTFE Media Starts With POREX



For POREX Virtek product inquiries and support, please contact +44 (0) 1349 884060 or email [PorexVirtek@filtrationgroup.com](mailto:PorexVirtek@filtrationgroup.com)

**AMERICAS** T. +1 770 964 1421 info.porex.amrs@filtrationgroup.com  
**EUROPE** T. +49 241 9105250 info.porex.emea@filtrationgroup.com  
**ASIA PACIFIC** T. +603 5191 3308 info.porex.apac@filtrationgroup.com  
**CHINA** T. +86 2685 8761 info.porex.china@filtrationgroup.com



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## DIFFERENTIATED PTFE FEATURES

- Raw materials in compliance with USP class VI and free of animal-derived additives
- High tensile strength
- Rolls widths from 8mm to 330mm
- Die cut discs from 3mm
- Wide range of bonding techniques: adhesive backing, ultrasonic or heat welding
- No scrim or backing required but PE/PP meshes available if required
- Broad spectrum of uses

## POREX® Virtek™ Medical PTFE Materials & Filters

The changing global healthcare environment requires differentiated, reliable and reproducible medical materials to help provide precision, accuracy and consistency in current and next generation medical devices. POREX® Virtek™ Medical PTFE materials and filters are the performance tested and technologically advanced portfolio of porous materials designed specifically for use in today's challenging medical-surgical device applications.

POREX® Virtek™ Medical PTFE materials and filters, used in multiple applications, are engineered for medical device functionality and reliability, and available with wide ranging capabilities in flow and filtration. These filters can be designed with optimal airflow, bacterial filtration efficiency (BFE) and fluid barrier features.

POREX's unparalleled material science, engineering and manufacturing expertise, combined with internationally recognized quality and regulatory standards and six sigma disciplines, aids market driven product development and helps improve the market value of medical device products by providing new, better or cost improved solutions.

When performance counts, turn to POREX® Virtek™ Medical PTFE Materials & Filters and experience how POREX advances innovation and product outcomes and turns product ideas into reality.



### Infection Control

#### MA PTFE Materials for Sterilization Containers

- Robust & reusable medical media as replacement for single use paper and textile filters
- UPS class VI and free of animal-derived additives
- Batch ID and date code printing available
- Vent function allows pressure equalization during sterilization process and bacteria barrier under storage conditions



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### Urology and Ostomy Care

#### MB PTFE Materials for Urine Drainage & Ostomy Collection Systems

- Pressure equalization vent between urine collection bag's interior & exterior regions
- POREX Virtek™ Medical PTFE media helps expedite urine disposal during drainage procedures
- Vent media allows gas release from ostomy pouches
- Prevents water penetration in ostomy pouches during water immersion activities
- Facilitates patient friendly device designs for improved lifestyle outcomes

1. Photo courtesy EuroTec BV-Roosendaal, Netherlands



### Injection Therapy

#### MD PTFE Materials for IV and Safety Catheters

- Flash plug hydrophobic membranes
- Vent facilitates gas and air passage
- Helps prevent blood bypass from IV flashback chamber
- Helps reduce blood-borne pathogen exposure
- >99.999% Bacterial Filtration Efficiency (BFE)



### Medical & Pharmaceutical Packaging

#### PMP POREX® Virtek™ PTFE P3 Medical Technology™ Materials

- Air flow harmonization with sterile barrier capability
- ETO sterilization efficiency improvement
- Material uniformity versus flashspun high-density polyethylene
- ASTM F 2638 conformity
- Container lyophilization vent with sterility maintenance

#### POREX Virtek™ Medical PTFE Material Data

POREX Virtek™ Medical PTFE	Thickness, mm, Nominal	Airflow, l/hr/cm², Typical at 70 mbar	BFE² % Nominal	WEP, mbar Typical
MA10	0.65	35 (min 25)	>99.9999	300 (min 200)
MA15	1.00	30 (min 14)	>99.9999	350 (min 200)
MB10	0.18	70 (min 45)	>99.99	380 (min 265)
MB10L	0.30	56 (min 31)	>99.99	380 (min 265)
MD10	0.13	125 (min 70)	>99.9	270 (min 175)
MD10L	0.30	85 (min 48)	>99.9	270 (min 175)
MD15	0.18	70 (min 45)	>99.99	380 (min 265)
MD20	0.25	34 (min 16)	>99.9999	520 (min 350)
MD25	0.19	5 (min 2)	>99.9999	1000 (min 750)
PMP31	0.14	125 (min 70)	>99.9	270 (min 175)
PMP32	0.26	65 (min 35)	>99.999	380 (min 250)
PMP33	0.18	70 (min 45)	>99.99	380 (min 265)

■ Infection Control
 ■ Urology & Ostomy Care
 ■ Injection Therapy
 ■ Medical & Pharmaceutical Packaging

² The Bacterial Filtration Efficiency (BFE) data is based on a modified version of ASTM F2101. POREX® Virtek™ Medical PTFE materials exceeded the standard BFE value of 98%.