

POREX® MEDICAL

POREX® VIRTEK™ MEDICAL PTFE MATERIALS & FILTERS

The Best PTFE Media Starts
With POREX



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



1

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

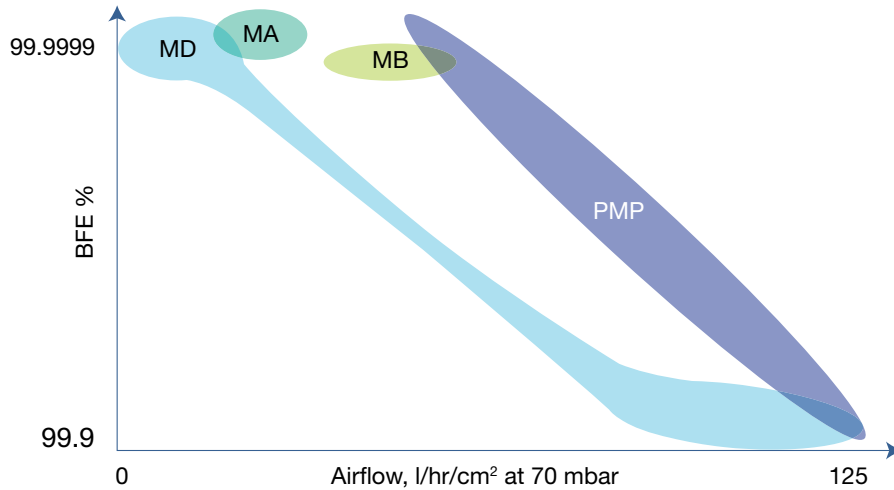
POREX Virtek™ Medical PTFE Material Data

POREX Virtek™ Medical PTFE	Thickness, mm, Nominal	Airflow, l/hr/cm ² , Typical at 70 mbar	BFE ² % 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)

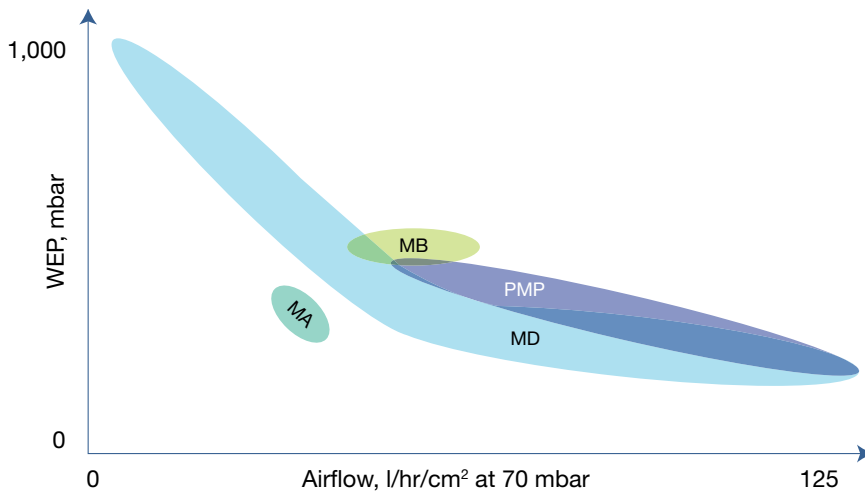
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²The Bacterial Filtration Efficiency (BFE) data is based on a modified version of ASTM F2101. POREX® Virtek™ Medical PTFE materials exceeded the standard BFE value of 98%.

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 airflow. Medical-grade porous PTFE can be used as specialty vents in medical devices for infection control and fluid management.

Porous polymer membranes that are formed by creating polymeric particles into a controlled interconnected open-cell 3D network have several advantages over traditional membrane porous media: improved mechanical strength, more uniform pore structure, broader pore size range and higher airflow for example. Because of the better structural properties, porous polymer membranes can be made sterilized and integrated into medical devices. Sterilized porous polymer products have been widely adopted in applications that require wetting, mixing and filtering functions. Sterilized porous membranes can be made from:

Material	Thickness (mm)	Porosity (%)	Flow (l/hr/cm²)	BFE (%)	WEP (mbar)
MD	0.10	70-80	100-150	99.9	100-200
MA	0.10	70-80	100-150	99.9	100-200
MB	0.10	70-80	100-150	99.9	100-200
PMP	0.10	70-80	100-150	99.9	100-200



Scan the QR code to view the article!

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



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