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

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

<table>
<thead>
<tr>
<th>POREX Virtek™ Medical PTFE</th>
<th>Thickness, mm, Nominal</th>
<th>Airflow, l/hr/cm², Typical at 70 mbar</th>
<th>BFE² % Nominal</th>
<th>WEP, mbar Typical</th>
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<tbody>
<tr>
<td>MA10</td>
<td>0.65</td>
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<td>300 (min 200)</td>
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<td>380 (min 265)</td>
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<td>85 (min 48)</td>
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<tr>
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<td>70 (min 45)</td>
<td>&gt;99.9</td>
<td>380 (min 265)</td>
</tr>
</tbody>
</table>

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**

![Graph showing BFE% and Airflow vs. 125 Air/f_low, l/hr/cm² at 70 mbar]

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

![Graph showing WEP, mbar and Airflow vs. 125 Air/f_low, l/hr/cm² at 70 mbar]

**All’s well that vents well**

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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