GORE® Microfiltration Media, Expanded Polyethylene
for Life Sciences Venting



RAPID GAS REMOVAL. RELIABLE PROTECTION. CONSISTENT PERFORMANCE. NON-PFAS.

GORE® Microfiltration Media for Medical Devices enables manufacturers to optimize performance and vent design by ensuring rapid gas removal – even after fluid contact – while protecting patients and users from leakage and restricting aerosolized bacteria and virus entry. Gore's expanded polyethylene (ePE) membranes are suitable for a wide range of life science venting applications and meet anticipated regulatory requirements.



Selected Commercial ePE Membranes

Thin Membranes	Reference Pore Size (µm)	Airflow[1] (l/hr)	WEP[2] bar (psi)	Thickness[3] µm (mil)
Series 1100	0.1	13	4.2 (61)	25 (1.0)
Series 1200	0.2	22	3.5 (51)	30 (1.2)
Series 1300	0.4	50	2.3 (33)	45 (1.8)
Series 5800	1.0	99	1.0 (14.5)	15 (0.6)

Thick Membranes	Reference Pore Size (µm)	Airflow[1] (l/hr)	WEP[2] bar (psi)	Thickness[3] µm (mil)
Series 1210	0.2	6	>5.0 (>73)	100 (3.9)
Series 1420	1.0	23	0.8 (11.6)	260 (10.2)
Series 1610	2.7	211	0.4 (6)	90 (3.5)
Series 1710	4.5	269	0.3 (4)	110 (4.3)

1. Nominal Airflow measured at 2.99 cm^2 and 1.2 kPa differential pressure with ATEQ measurement system.
2. Nominal Water Entry Pressure, point of instantaneous D.I. water intrusion.
3. Nominal thickness of membrane only, measured mechanically.

Together, improving life

Historical Use Examples

Drug delivery patches, syringe filters, ostomy bags, cosmetics & fragrances, respirators, air humidifiers, bioreactors, vent filters, clean space, blood plasma transfusion, diagnostics

Key Features and Benefits

- ePE membranes with non-woven support are available to facilitate handling and integration.
- Optional non-PFAS surface treatment is available to enhance liquid repellency.
- Chemical composition:
  - Membrane – Ultra high molecular weight polyethylene (UHMWPE)
  - Support – Non-woven polyester, polypropylene, and others
  - Optional non-PFAS surface treatment – Proprietary
- Customizable pore size, permeability, thickness, and tensile strength
- Sterilization: Polyethylene, as a material, is known to resist breakdown when exposed to aggressive chemicals, ethylene oxide, and irradiation (i.e. e-beam, and gamma) sterilization treatments.
- 30+ years of continuous improvement have resulted in exceptional membrane performance and consistency
- Technical support leverages decades of experience to help customers solve problems, such as material selection, vent design, and integration challenges
- Global technical and sales support team

Gore PharmBIO Products

Our technologies, capabilities, and competencies in material science are focused on satisfying the evolving product, regulatory, and quality needs of pharmaceutical and bioprocessing customers, and medical device manufacturers. The products in the Gore PharmBIO Products' portfolio, are tested and manufactured under stringent quality systems. These high-performance products provide creative solutions to our customers' design, manufacturing, and performance-in-use needs.

All technical information and advice given here is based on our previous experiences and/or test results. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check the suitability and usability of our products in the specific applications, since the performance of the product can only be judged when all necessary operating data is available. Gore's terms and conditions of sales apply to the purchase and sale of the product.

GORE, *Together, improving life*, and designs are trademarks of W. L. Gore & Associates. © 2026 W. L. Gore & Associates, Inc.

Contact Information

Use the contact information below for more information and sample orders.

Americas | W. L. Gore & Associates, Inc.
402 Vieve's Way • Elkton, MD 21921 • USA
Phone: +1 410 506 1715 • Toll-free (US): 1 800 294 4673
Email: pharmbio@wlgore.com

Europe | W. L. Gore & Associates, GmbH
Wernher-von-Braun-Strasse 18 • 85640 Putzbrunn, Germany
Phone: +49 89 4612 3456 • Toll free: 0 800 4612 3456
Email: pharmbio_eu@wlgore.com

gore.com/pharmbio

PB14276-R2-DST-US-AUG26