

Revonex™ Membrane Backing Paper

Casted thin film composite (TFC) membrane elements require high-strength substrate support materials capable of withstanding fast production speeds and high tensions.

[Revonex™ Membrane Backing Paper](#) is a membrane support substrate that features a unique set of material properties designed to improve runnability in the membrane casting process.



Revonex membrane backing paper overcomes many of the common issues experienced in the casting process, including lower production yield due to substrate defects, varying final membrane efficiency caused bleed-through from pinholes, scrap generated from substrate edge curling under high tension, and frequent downtime from short-length roll changeovers.

The highly uniform web produces zero bleed-through, leading to improved adhesion in the casting process that ultimately generates higher yield and consistency of the final membrane. Available in long roll lengths with consistent flatness, you will experience more uptime and less scrap.

Contact [SWM](#) today to trial Revonex membrane backing paper and learn how we can help you produce more consistent membranes!

For a World of Applications

TFC membrane producers trust SWM to provide specialty materials for applications listed below:



Commercial

- Home reverse osmosis (HRO)
- Point-of-use
- Beverage distribution
- Microbreweries
- Dispensing equipment
- Small water systems



Process Filtration

- Microfiltration
- Ultrafiltration
- Food & dairy
- Life sciences
- Grain - soy & corn
- Cartridge filter media



Water Treatment

- Reverse osmosis
- Nanofiltration
- Desalination & brackish
- Water reuse & reclamation

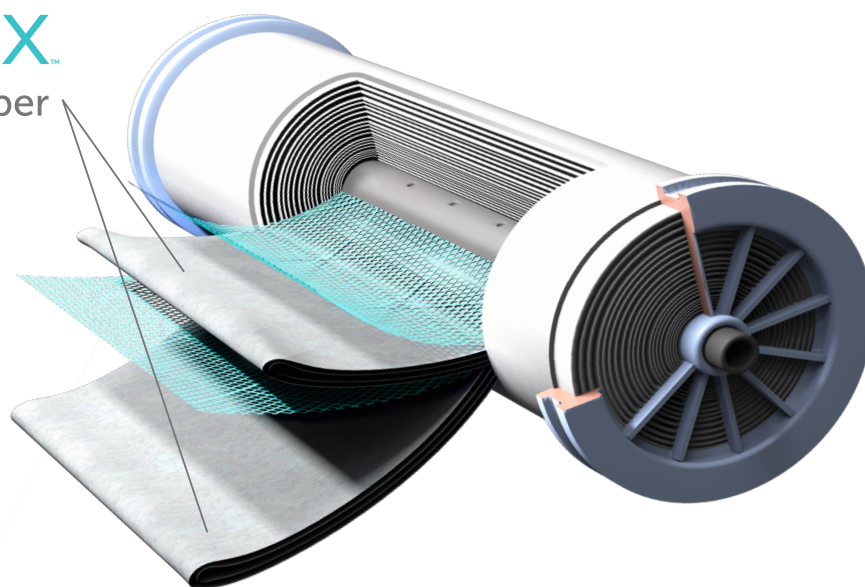
Features:

- High web uniformity
- No pinholes
- No standing fibers
- Less curling
- Long uniform rolls

Benefits:

- Improved adhesion with fewer membrane defects
- Zero bleed-through for increased membrane efficiency
- Reduction in quality defects in membrane casting
- Reduction of edge curl under tension
- Fewer changeovers increasing uptime

Membrane Backing Paper



Technical Specifications

Revonex Membrane Backing Paper Specifications	Calendared Results	Uncalendared Results
Basis Weight (g/m ²) - ISO 536	50-100	50-100
Thickness (µm)	60-120 (100 kPa - ISO 534)	500-1000 (0.5 kPa - WSP120.6)
Air permeability (cc/cm ² /s) - ASTM D737	0.5-4.0 (Frazier/125 Pa)	120-240 (Frazier/250 Pa)
Material	100% PET	100% PET
Smoothness (seconds) - Bekk	10-30	N/A
Tensile Strength - WSP 110.4	MD 7000-14000 CD 2800-5600 (cN/15mm)	MD 500-1000 CD 150-300 (cN/50mm)
Product Certifications:	FDA NSF 58 NSF61	FDA NSF 58 NSF61

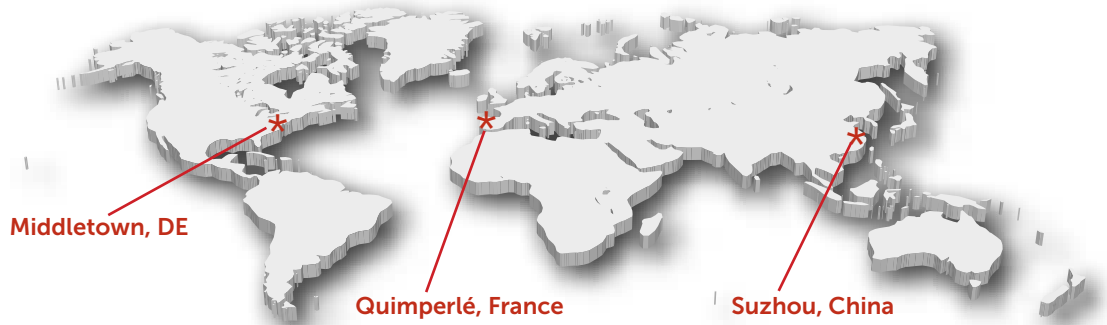
Results expressed as PDM units, according to PDM methods and instruments.

Laboratory conditions : T = 23 °C - RH = 50 % - ISO 187

PET - Polyethylene terephthalate



The SWM global infrastructure spans four continents and provides strategically placed experts and facilities to respond quickly and efficiently to rapidly evolving market needs. Revonex membrane backing paper is manufactured in Quimperlé, France and distributed out of Middletown, DE, USA and Suzhou, China. SWM is focused on advancing the products for spiral wound membranes through advanced materials and technologies in our ISO 9001, ISO 14001, ISO 50001 and OHSAS 18001 certified facilities. Our diverse product lines are recognized worldwide for their superior performance in a variety of applications.



SWM locations shown (from top to bottom) Quimperlé, France; Middletown, DE, USA; and Suzhou, China

About SWM

SWM is a leading global performance materials company. We use natural fibers, resins, and polymers to provide essential solutions that enhance product performance and help our customers win in a variety of industries and applications. For further information, please visit our web site at www.swmintl.com.

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