



ROLLSTOCK MEMBRANE

The Perfect Cost-Effective Solution for High Volume,
Next Generation Products

Oxyphen Rollstock track-etched membrane material is the ideal solution for in-house and large-scale manufacturing integration, supplied using polyester (PET) or polycarbonate (PC) high quality materials. Depending on your needs, these membranes can be produced laminated, unlaminated, or as fiber-based products, converted from 330mm width bobbin down to 8mm slit rolls. They can also be treated with hydrophilic, hydrophobic, or oleophobic properties for increased performance capabilities.

The porous structure of Oxyphen's track-etched membranes can be precisely adjusted as it relates to pore-size and pore-density depending on the filtration efficiency, flowrate, or water entry pressure desired. Unlaminated Unique-Mem® track-etched membranes are characterized by cylindrical shaped pores penetrating the membrane at different angles. They consist of a single membrane layer which can be transparent or translucent depending on pore density. RoTrac® track-etched membranes, which are available as hydrophobic or hydrophilic, include an additional support material layer which is non-woven (PP or PET) to create a more robust membrane when needed.

Each membrane from Oxyphen is 100% free of PFOA and can be sealed via heat or ultrasonic welding onto most plastic housings – preferably in a punch-and-seal procedure. This makes for an easy, highly autonomous assembly process.

Standard Band Width (mm): 10, 13, 14.5, 20 and customized solutions.

Key Benefits

- 100% Free of PFOA: Compliant with (EC) 1907/2006 REACH / Regulation (EU) 2019/1021 POP
- Cost-effective
- Best suited for automated assembly
- Easy handling with maximum output
- Various raw material options
- Membranes available with and without lamination
- Customizable pore size, pore density and thickness
- Resistant to gamma-ray and X-ray sterilization
- Superior hydrophilic, hydrophobic and oleophobic coatings available
- Self-cleaning properties

Material Options

PET with no lamination

PET with lamination of PET or PP (hydrophilic or hydrophobic)

Available Options

Temperature range without lamination	- 40 + 160° C
Temperature range with lamination	- 40 + 135° C
Hydrophilic treatment	Yes
Hydrophobic/ Oleophobic treatment ¹	Grade up to 7.5; AATCC TM 118
- Salt spray resistance test ²	According to IEC 60068-2-52
- Temperature resistance test ¹	In accordance with ISO 16750-4
- Ice water shock test ^{1&2}	In accordance with ISO 16750-4
- Climate resistance test	In accordance with ISO 16750-4
- Chemical resistance test ¹	According to LV124/ ISO 16750-5
- IP Protection ¹	IP 64/65/66/67/68, according to DIN 40050

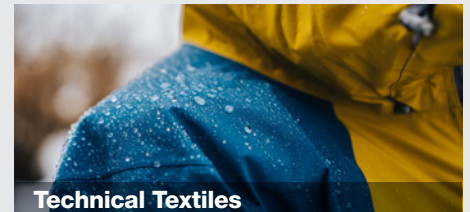
¹ Testing in progress

² Based on customer validation

Membrane Technologies Available

- Unique-Mem® track-etched membrane technology
- RoTrac® track-etched membrane technology
- Fiber-based membrane technology

Related Applications



Technical Textiles



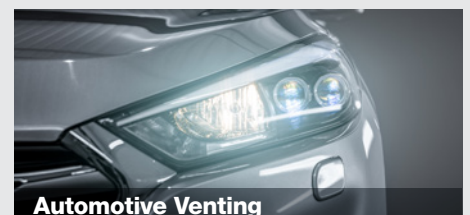
Personal Care Devices



Handheld Devices



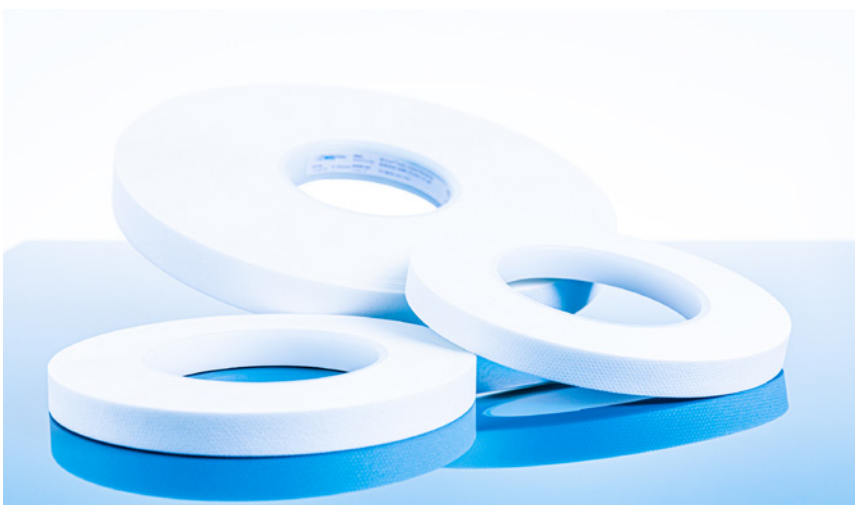
Medical Devices



Automotive Venting



Diagnostics



Rollstock membranes available in customized dimensions and required roll-core materials



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