

## Medical blood oxygenation membrane

# Membrana OXYPHAN 50/200 capillary membrane

**Product name: Thermo Scientific™ Membrana™ OXYPHAN™ 50/200 Capillary Membrane****Chemical composition**

|                  |               |
|------------------|---------------|
| Polymer          | Polypropylene |
| Solvent residues | ≤ 100 ppm     |

**Physical properties**

|                                        |             |
|----------------------------------------|-------------|
| Wall thickness                         | 50 ± 10 µm  |
| Outer diameter                         | 300 ± 20 µm |
| Inner diameter (nominal)               | 200 ± 40 µm |
| Maximum pore size (calculated from BP) | ≤ 0.2 µm    |
| Bubble point (Isopropylalcohol, 23°C)  | ≥ 3.1 bar   |
| Tensile strength                       | ≥ 150 cN    |
| Elongation at break                    | ≥ 400%      |
| Explosion pressure                     | ≥ 3.0 bar   |
| Implosion pressure                     | ≥ 3.5 bar   |

**Membrane performance characteristics**

|               |                                          |
|---------------|------------------------------------------|
| Nitrogen flux | 75 ± 30 ml/[min x cm <sup>2</sup> x bar] |
|---------------|------------------------------------------|

**Available make up configurations**

Single-thread spools  
Single layer mats or cross-wound mats

All specifications are based on Thermo Fisher Scientific internal test procedures and represent average lot performance.

**Intended Use:** Membrana OXYPHAN 50/200 capillary membranes are gas exchange membranes which are intended as precursor products for the production of oxygenators. Oxygenators are medical devices intended for use in blood oxygenation. Thermo Fisher supplies oxygenation membranes in the form of capillaries and knitted mats to oxygenator manufacturers in accordance with specifications and technical product references. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Thermo Scientific product in user's application.

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