

# MexFil™ MP025 dNF80

**Nanofiltration membrane module for water and wastewater applications**

## PRODUCT DESCRIPTION

The MexFil™ MP025 dNF80 nanofiltration modules have the following features:

- For lab scale test units;
- Excellent removal of color and dissolved organics, including micropollutants;
- Excellent pH tolerance;
- Inside-out operation in a cross-flow filtration mode;

## MODULE SPECIFICATIONS

**Membrane Surface Area** 0.067 m<sup>2</sup>

### Module Dimensions

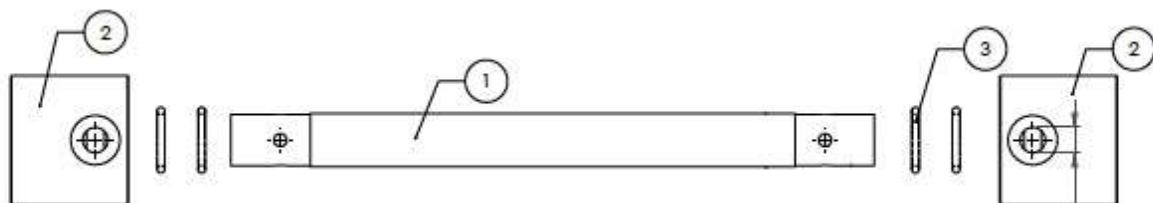
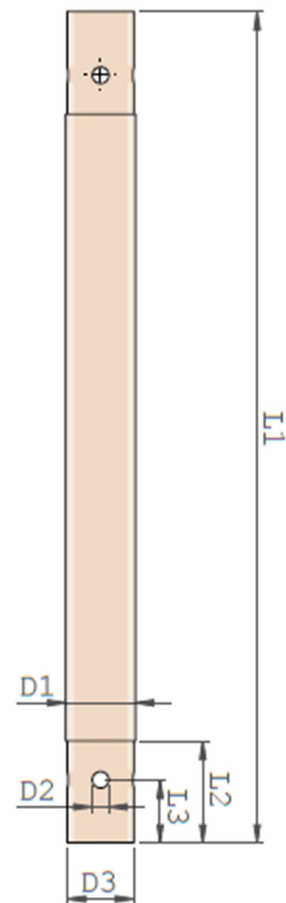
<b>L1</b>	300 mm	<b>D1</b>	25 mm
<b>L2</b>	37 mm	<b>D2</b>	6 mm
<b>L3</b>	23 mm	<b>D3</b>	24 mm

## MATERIALS OF CONSTRUCTION

<b>Housing</b>	PVC transparent
<b>Internals</b>	None
<b>Potting Material</b>	Epoxy resin

## ASSEMBLY<sup>1</sup>

- 1 Module
- 2 Endcaps (Material: PP)
- 3 O-rings (Material: EPDM) size: 23.39 x 3.53 mm



<sup>1</sup>Assembly components not included in the scope of supply of a MP025 dNF80 module. Please contact NX Filtration for the purchase of a complete assembly kit.

# MexFil™ MP025 dNF80

**Nanofiltration membrane module for water and wastewater applications**

## MEMBRANE SPECIFICATIONS

Membrane material	Modified PES
MWCO <sup>2</sup>	800 Dalton
Min. MgSO <sub>4</sub> rejection <sup>3</sup>	76%
Membrane charge	Negative @ pH=7
Membrane fiber inner diameter	0.7 mm

<sup>2</sup>Molecular Weight Cut-Off (MWCO) is an estimation as it depends on size, shape, charge and polarity of the compound being tested, as well as test conditions.

<sup>3</sup>Test conditions: 5.0mMol/L MgSO<sub>4</sub>, 3.0bar, 25°C, v=0.5m/s

## TYPICAL OPERATING RANGES

Max. system pressure <sup>4</sup>	6 bar
Max. transmembrane pressure <sup>4</sup>	6 bar
Max. backwash pressure <sup>4</sup>	6 bar
Max. temperature during operation & cleaning	40°C
pH range during operation	2-12
pH range during cleaning	1-14
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Cross flow-velocity range	0.1 – 2.0 m/s (16 – 310 L/h)

<sup>4</sup>Maximum pressures at 20°C.

## FEED WATER SPECIFICATIONS

Max. TSS	300 ppm
Max. turbidity	150 NTU
Max. particle size	150 µm

your membrane partner

NX Filtration B.V. | Institutenweg 35 | 7521PH Enschede | The Netherlands | +31 (0)85 047 99 00 | [www.nxfiltration.com](http://www.nxfiltration.com) | [info@nxfiltration.com](mailto:info@nxfiltration.com)

The statements, technical information and recommendations contained herein are believed to be accurate at the date of publication. Since the conditions and methods of use of the product and/or the information referred to herein are beyond our control, NX Filtration B.V. expressly disclaims any and all liability as to any results obtained from or arising out of any use of the product and/or reliance on such information. NO WARRANTIES OR GUARANTEES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OF TITLE, OF NONINFRINGEMENT OF THIRD PARTY RIGHTS OR ANY OTHER WARRANTY ARE MADE CONCERNING THE PRODUCTS DESCRIBED AND/OR THE INFORMATION PROVIDED HEREIN.