

## NanoPro™ B-4027

### Base Stable Membrane Data Sheet

#### Product description

<b>Membrane Chemistry:</b>	Polyethersulfone
<b>Membrane Type:</b>	Base Stable Nanofiltration Membrane 2540/4040 Spiral Wound Element
<b>Construction*:</b>	Feed Spacer (diamond): 31 mil, 46 mil Permeate Tube: Polysulfone

\*For special requests, please contact AMS

#### Specifications

Model	Rejection %	Pure Water Flux LMH (GFD)	Membrane Area m <sup>2</sup> (ft <sup>2</sup> )	Feed Spacer mil
	Na <sub>2</sub> SO <sub>4</sub>			
B-4027-2540-31P	80-95	>40 (23.5)	1.8 (10.7)	31
B-4027-2540-46P			1.8 (10.7)	46
B-4027-4040-31P			7.6 (81.8)	31
B-4027-4040-46P			6.3 (67.8)	46

Test Conditions: 40 bar (580 psi); 20°C (68°F); Stirred cell (700 rpm).

## Operating Information (\*)

Maximum Operating Pressure:	40 bar (580 psi)
Maximum Operating Temperature:	80°C (176°F)
Maximum Cleaning Temperature:	80°C (176°F)
Allowable pH – Continuous Operation:	3-14
Allowable pH – Clean in Place (CIP):	2-14
Maximum Pressure Drop per Element:	0.5 bar (7.2 psi)
Recirculation Flow Rate	2540: 2 m <sup>3</sup> /h 4040: 6–10 m <sup>3</sup> /h

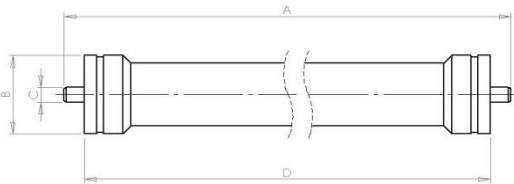
(\*) Consult AMS Technologies for specific information

## Recommended cleaning materials

- Use deionised water to wash the element. Use alkaline cleaner to clean organic contamination; use acidic cleaner to clean inorganic contamination.

## Nominal Product Dimensions

For 2540:



Size	A	B	C	D
	mm (inches)	mm (inches)	mm (inches)	mm (inches)
2540	1016 (40)	62 (2.4) - OD	19.05 (0.75) - OD	965 (38)

For 4040:

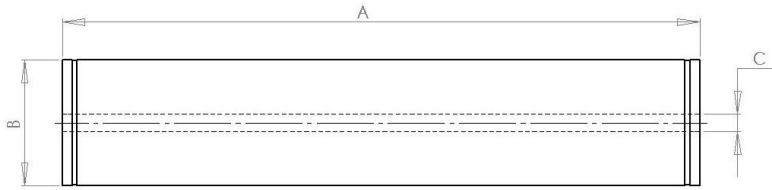
AMS-v2.0

1 Yehonatan Netanyahu St.  
Or-Yehuda 60376, Israel

**Tel** +972 77 340 0671

**Fax** +972 77 340 0633

[www.amsmembrane.com](http://www.amsmembrane.com)



Size	A	B	C
	mm (inches)	mm (inches)	mm (inches)
4040	1016 (40)	101.5 (4.0)	16 (0.63) - ID

### **Lubricants:**

For element installation, use glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the element and void any warranty.

### **Other**

- Do not expose the membrane to chlorine or other oxidants.
- Sodium metabisulfite (without catalysts such as cobalt) is the preferred chemical to eliminate free chlorine or other oxidizers in the feed.