



# FilmTec™ XLE PRO-4040 & XLE PRO-2540 Element

Tape-Wrapped Low Energy Large Commercial Elements for Commercial Applications

## Key Feature

- The lowest pressure FilmTec™ RO Large Commercial Element requires lower energy and provides more productivity, especially in cold waters.
- Produce good water quality at very low applied pressure for drinking water and commercial applications

## Key Application

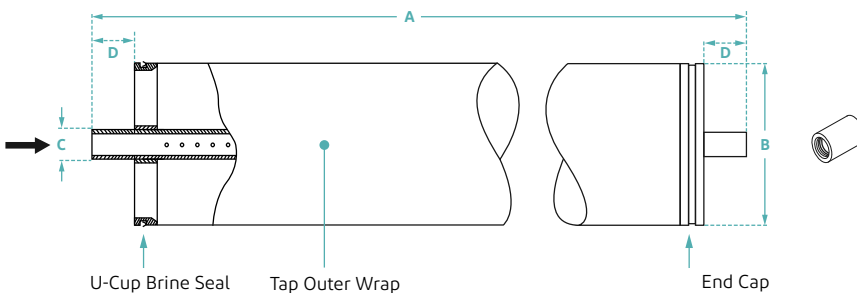
- Drinking and commercial water applications for plant sizes  $\leq 2.3 \text{ m}^3/\text{h}$  (10 gpm) – Hotels, Restaurants, Cafes, Car wash, schools, refilling stations, etc.

## Typical Properties

Product	Part Number	Active Area		Permeate Flow Rate	Stabilized Salt Rejection (%)
		ft <sup>2</sup>	m <sup>2</sup>	gpd (m <sup>3</sup> /d)	
XLE PRO-4040	12082995	87	8.1	2,750 (10.4) $\pm 20\%$	99.0
XLE PRO-2540	12082909	28	2.6	1,000 (3.8) $\pm 20\%$	99.0

1. Permeate flow and salt rejection based on the following test conditions: 77°F (25°C), 15% recovery, applied pressure 125 psig (8.7 bar), pH 8, and based on a 2,000 ppm NaCl feed stream.
2. Minimum salt rejection is 97.0%.
3. For the purpose of improvement, specifications may be updated periodically.

## Element Dimensions



Dimensions - inches (mm)		
	XLE PRO-4040	XLE PRO-2540
A	40.0 (1,016)	40.0 (1,016)
B	1.05 (26.7)	0.75 (19)
C	0.75 (19)	0.75 (19)
D	3.9 (99)	2.4 (61)

1 inch = 25.4 mm

1. FilmTec™ XLE PRO-2540 Elements fit nominal 2.5-inch I.D. pressure vessel.
2. FilmTec™ XLE PRO-4040 Elements fit nominal 4-inch I.D. pressure vessel.

FilmTec™ coupler part number 89055 is ordered separately for each element. Each coupler includes two 2-210 EPR O-rings (part number 89255).

## Suggested Operating Conditions

Membrane Type	Polypiperazine Thin-Film Composite
Maximum Operating Temperature	113°F (45°C)
Maximum Operating Pressure	600 psi (41 bar)
Maximum Feed Flow Rate <sup>4</sup>	
4040 Elements	14 gpm (3.2 m <sup>3</sup> /hr)
2540 Elements	6 gpm (1.4 m <sup>3</sup> /h)
Maximum Pressure Drop	
Per Element	13 psig (0.9 bar)
Per Pressure Vessel (Maximum 2 Elements)	30 psi (2.1 bar)
pH Range	
Continuous Operation <sup>1</sup>	2 - 11
Short-Term Cleaning (30 min.) <sup>2</sup>	1 - 13
Maximum Feed Silt Density Index	SDI 5
Free Chlorine Tolerance <sup>3</sup>	< 0.1 ppm

1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C). Refer to [FilmTec™ Cleaning Guidelines](#) (Form No. 45-D01696-en).
2. For recommended feed and permeate flow rates, flux, and recovery for various feed sources, refer to [FilmTec™ Design Guidelines for multiple-element systems of midsize elements](#) (Form No. 45-D01588-en).
3. Oxidation damage is not covered under warranty, DuPont recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

## General Information

- Keep elements moist at all times after initial wetting.
- For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the [FilmTec™ Reverse Osmosis / Nanofiltration Elements Operation Excellence and Limiting Conditions Tech Fact](#) (Form No. 45-D04388-en).
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side backpressure at all times.
- Permeate obtained from the first hour of operation should be discarded.
- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

## Important Information.

Please consider good operating practices for the optimal performance of the Reverse Osmosis membrane elements to assure damage free operation:

1. [Loading of Pressure Vessels – Preparation & Element Loading](#) (Form No. 45-D01602-en)
2. System Operation, including plant [Start-Up Sequence](#) (Form No. 45-D01609-en) and [RO & NF Systems Shutdown](#) (Form No. 45-D01613-en)
3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation, and troubleshooting is given in the [FilmTec™ Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

## Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.



Have a question? Contact us at:  
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