



## Product certificate K109805/01

Issued 2022-12-01

Replaces -

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### Industrial and Commercial RO membrane filtration elements

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### **Toray Advanced Material Korea Inc.**

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-K14037 "Evaluation Guideline for the Kiwa product certificate for 'Membrane filtration elements for the treatment and/or production of drinking water'" dated 21-11-2017.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

#### Kiwa Nederland B.V.

Sir Winston Churchillaan 273  
Postbus 70  
2280 AB RIJSWIJK  
The Netherlands  
Tel. +31 88 998 44 00  
Fax +31 88 998 44 20  
NL.Kiwa.info@Kiwa.com  
[www.kiwa.nl](http://www.kiwa.nl)

#### Company

Toray Advanced Material Korea Inc.  
141-11,1Gongdan-ro 4-gil, 39373,  
Gumi, Gyeongsangbuk-do  
Korea  
Tel. + 82-54-480-3000



Certification process  
consists of initial and  
regular assessment of:

- quality system
- product

# Product certificate

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## Industrial and Commercial RO membrane filtration elements

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### PRODUCT SPECIFICATION

This certificate covers the following 'Industrial and Commercial RO membrane filtration elements' for the treatment and/ or production of drinking water:

RE2521-BE	RE4040-BE	RE8040-BE34
RE2521-BLN	RE4040-BLN	RE8040-BE440
RE2521-BLF	RE4040-BLF	RE8040-BLN
RE2521-BLR	RE4040-BLR	RE8040-BLN440
	RE4040-FEN	RE8040-BLF
RE2540-BE		RE8040-BLF440
RE2540-BLN		RE8040-BLR
RE2540-BLF		RE8040-BLR440
RE2540-BLR		RE8040-FEN34
		RE8040-FLF34
RE4021-BE		
RE4021-BLN		
RE4021-BLF		
RE4021-BLR		

### APPLICATION AND USE

Any handling of ground water, surface water, sea water, or other raw water used in the production of drinking water, up to the point where the drinking water becomes available for consumption.

### APPROVAL

The products are approved on the basis of the requirements set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (Materials and chemicals in the supply of drinking water and warm tap water Regulation; published in the Government Gazette).

### CRITERIA HYGIENIC ASPECTS

The product certification is based on two main criteria. It should permanently comply with the:

- product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa following the Kiwa approval procedure related to the hygienic aspects.
- specific product requirements (see "PRODUCT REQUIREMENTS HYGIENIC ASPECTS").

### PRODUCT REQUIREMENTS

For this product is relevant the positive list mentioned in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (published in the Government Gazette).

After 30 days the maximum tolerable concentration in the drinking water ( $MTC_{\text{drinking water}}$ ) of the following substances or parameters may not exceed the numerical values mentioned behind.

- TOC 2 mg/l;

### FITNESS FOR CONTACT WITH DRINKING WATER

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation", dated 01-07-2017; published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.  
The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate

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## Industrial and Commercial RO membrane filtration elements

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### MARKING


Design of the required Kiwa certification mark:

- "kiwa ", in ink or seal.

Location of the mark:

- On the product / On the packaging / On the delivery receipt.

Mandatory marks:

- "kiwa ";
- Trade name of the end product;
- "K109805".

### INSTRUCTIONS FOR USE (IFU)

The supplier should provide information for the use of the membranes.

These IFU should include:

- Specification of the product (membrane element)
- Description of the filtration process
- Instruction for installation of the elements
  - Guidelines for commissioning/ start-up/ shut-down of a membrane system
- Instructions for initial flush prior to production of drinking water
- Guidelines for operating conditions
  - Filtration flux, feed pressure
  - Hydraulic cleaning (if applicable)
  - Chemical cleaning (CEB and CIP) incl. list of chemicals
  - Conservation and other precautions when not in production (short term, long term)
- Precautions for ▪ Safe use ▪ Shipment and storage
  - Conservation of membrane elements
- Maintenance
  - Membrane Integrity testing
  - Element repair procedure
- Health and Safety Issues
- Waste Disposal

Precautions to protect the product against contamination shall be agreed upon between the supplier and the client and shall be recorded in the quality management system of the supplier.

### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Toray Advanced Material Korea Inc.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's (processing) guidelines for the proper storage and transport methods.

Check whether this certificate is still valid by consulting [www.kiwa.nl](http://www.kiwa.nl).