



Product certificate K99935/02

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Replaces K99935/01

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GEROfit® REX class II and class III polyethylene pipes with an aluminium barrier layer for the transport of drinking water in polluted soil

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

GERODUR MPM Kunststoffverarbeitung GmbH & Co. KG

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-K17101 "Class II and class III polyethylene piping systems with an aluminium barrier layer for the transport of drinking water in polluted soil" dated 12-12-2017.

Ronald Karel
Kiwa

*This product certificate is only valid in combination with a Kiwa certified plastics piping system.
Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.*

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Certification process
consists of initial and
regular assessment of:

- quality system
- product

GEROfit® REX class II and class III polyethylene pipes with an aluminium barrier layer for the transport of drinking water in polluted soil

PRODUCT SPECIFICATION

This certificate covers GEROfit® REX class II and class III polyethylene (PE) pipes for the transport of drinking water according to BRL-K17101 "Class II and class III polyethylene piping systems with an aluminium barrier layer for the transport of drinking water in polluted soil".

The PE pipes with wound aluminium barrier layer are part of a Kiwa certified piping system according to certificate K99936.

TECHNICAL SPECIFICATION

Black PE pressure pipes with an additional aluminium barrier layer and blue thermoplastic protection layer with green identification stripes.

The dimensions and types, given in the table below are part of this product certificate.

PN Diameter	SDR26	SDR21	SDR17	SDR13,6	SDR11
PE100	PN6	PN8	PN10	PN12,5	PN16
32	-	-	X	X	X
40	-	X	X	X	X
50	X	X	X	X	X
63	X	X	X	X	X
75	X	X	X	X	X
90	X	X	X	X	X
110	X	X	X	X	X
125	X	X	X	X	X
140	X	X	X	X	X
160	X	X	X	X	X
180	X	X	X	X	X
200	X	X	X	X	X
225	X	X	X	X	X
250	X	X	X	X	X
280	X	X	X	X	X
315	X	X	X	X	X
355	X	X	X	X	X
400	X	X	X	X	X
450	X	X	X	X	X
500	X	X	X	X	X
560	X	X	X	X	X
630	X	X	X	X	X

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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MARKING

The products shall be marked with the Kiwa®-mark

Pipes

Pipes shall be provided with the following marks:

- **KIWA**  or  ;
- manufacture's name, trade name;
- material identification: PE 100 (of the inner pipe);
- class II and class III;
- SDR number of the inner pipe;
- nominal pressure (PN);
- nominal outside diameter of the inner pipe;
- production code;
- BRL-K17101.

Location of the mark: on each pipe at a distance of up to 2 meters.

The implementation of the marks is as follows: clear, durable and indelible marks.

APPLICATION AND USE

The products are intended for PE piping systems for the transport of drinking water in highly polluted soil with hydrocarbon concentration up to saturation in the surrounding groundwater. The permeation requirements for barrier pipe systems (pipes and connection) has been set as $C_{24h} \leq 1 \mu\text{g/l}$. This guarantees an acceptable limit in the drinking water at a lifetime of the piping system of 50 years and after a standstill time of 24 hours.

Restrictions for use:

Class II: concentration level in groundwater: < 60% of saturated solution;

Class III: no restriction up to saturated solution.

See BRL K17101, par. 1.2 for further explanation about the classification of drinking water piping systems in polluted soil.

The maximum temperature of the drinking water to be transported is 45 °C.

For further information see the Kiwa guidance document for BRL K17101 and K17102.

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:

- GERODUR MPM Kunststoffverarbeitung GmbH & Co. KG
- and, if necessary,
- Kiwa Nederland B.V.

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