



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DW-8501CS0357

Registration Number
Registriernummer

Field of Application <i>Anwendungsbereich</i>	products of water supply <i>Produkte der Wasserversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	POLOPLAST GmbH Kirnachstraße 17, D-87640 Ebenhofen
Distributor <i>Vertreiber</i>	POLOPLAST GmbH Kirnachstraße 17, D-87640 Ebenhofen
Product Category <i>Produktart</i>	installation systems and system joints: drinking water installation system (8501)
Product Description <i>Produktbezeichnung</i>	drinking water installation system consisting of welding connectors made of plastic (PP-R), type S-KK and pipes made of plastic (PP-R)
Model <i>Modell</i>	POLO-ECOSAN
Test Reports <i>Prüfberichte</i>	type testing: 121878/16 from 17.10.2017 (SKZ) KTW testing: KR 239/16 from 18.01.2017 (TZW) hygienic testing: W-225585e-13-SI from 23.01.2013 (WHY)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 534-(P) (01.07.2015) DVGW CERT ZP 8500 (09.03.2017) UBA METALLE (15.03.2017) UBA KTW (07.03.2016) DVGW W 270 (01.11.2007)
Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i>	17.10.2022 / 14-0464-WNE

70226-04-A-DE

25.10.2017 Fk A-1/2

Date, Issued by, Sheet, Head of Certification Body
Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle

DVGW CERT GmbH is an accredited body by DAkkS according to DIN EN ISO/IEC 17065:2013 for certification of products for energy and water supply industry.

DVGW CERT GmbH ist von der DAkkS nach DIN EN ISO/IEC 17065:2013 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.



Deutsche
Akkreditierungsstelle
D-ZE-16028-01-05

DVGW CERT GmbH
Zertifizierungsstelle

Josef-Wirmer-Str. 1-3
53123 Bonn

Tel. +49 228 91 88 - 888
Fax +49 228 91 88 - 993

www.dvgw-cert.com
info@dvgw-cert.com

Type <i>Typ</i>	Technical Data <i>Technische Daten</i>	Remarks <i>Bemerkungen</i>
POLO-ECOSAN	diameter: 20,0 x 3,40 mm	
POLO-ECOSAN	diameter: 25,0 x 4,20 mm	
POLO-ECOSAN	diameter: 32,0 x 5,40 mm	
POLO-ECOSAN	diameter: 40,0 x 6,70 mm	
POLO-ECOSAN	diameter: 50,0 x 8,30 mm	
POLO-ECOSAN	diameter: 63,0 x 10,50 mm	

certified Components**zertifizierte Bauteile / Werkstoffe**

Registr. No. <i>Regist.-Nr.</i>	Component <i>Bauteil (Produktart)</i>	Model/Type <i>Modell/Typ</i>	Manufacturer <i>Hersteller</i>
DW-8317CS0358	PP-R, SDR 6	POLO-ECOSAN/POLO-ECOSAN	POLOPLAST GmbH


 The image shows a large, faint watermark of the DVGW logo in the bottom right corner. The logo consists of a stylized flame or leaf-like shape above the letters 'DVGW'.



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DW-8317CS0358

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Owner of Certificate <i>Zertifikatinhaber</i>	POLOPLAST GmbH Kirnachstraße 17, D-87640 Ebenhofen
Distributor <i>Vertreiber</i>	POLOPLAST GmbH Kirnachstraße 17, D-87640 Ebenhofen
Product Category <i>Produktart</i>	plastic pipes for drinking water installations: PP-R, SDR 6 (8317)
Product Description <i>Produktbezeichnung</i>	plastic pipes made of PP-R for the drinking water installation
Model <i>Modell</i>	POLO-ECOSAN
Test Reports <i>Prüfberichte</i>	type testing: 121877/16 from 17.10.2017 (SKZ) KTW testing: KR 240/16 from 25.11.2016 (TZW) hygienic testing: W-225585e-13-SI from 23.01.2013 (WHY)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 544 (01.05.2007) UBA KTW (07.03.2016) DVGW W 270 (01.11.2007)

Date of Expiry / File No. 17.10.2022 / 14-0464-WNE
Ablaufdatum / Aktenzeichen

25.10.2017 Fk A-1/2

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info@dvgw-cert.com

Type <i>Typ</i>	Technical Data <i>Technische Daten</i>	Remarks <i>Bemerkungen</i>
POLO-ECOSAN	manufacturing group: 1	diameters: 10 up to 63 mm

Certificate

SKZ - Testing GmbH awards the following company

Poloplast GmbH
Kirnachstraße 17
87640 Ebenhofen
Germany

Production site: Poloplast GmbH, 87640 Ebenhofen

the right to use the **SKZ** testing and inspection mark



A 634

for the following plastic products

Pressure pipe system, Fibre multilayer pipes made of PP-R(CT)/PP-R(CT)-GF/PP-R(CT)/PP-R(CT)-GF/PP-R(CT) and fittings made of PP-R(CT), group 1 and 2

SKZ Specification for Tests and Inspection HR 3.51

Users of the **SKZ** mark are obliged to observe the required regulations for the production and testing of these products.

Date of initial certification: 13 June 2013

Date of expiry: 12 June 2023



Würzburg, 13 June 2018

i.V.

Dipl.-Ing. Hans-Peter Krause
Certification body

TEST CERTIFICATE

Concerning the examination of tube samples PP-R, green (Polo – Ecosan) in accordance with the recommendations of the KTW-guideline of Umweltbundesamt (UBA)

Period of Inspection: Qualifying test 2016
 Manufacturer: POLOPLAST GmbH, Ebenhofen
 Dimension: 32 x 5,4 mm
 Material identification: [Vestolen P9421-66409]
 Samples received: 24.10.2016
 Sampler: manufacturer
 TZW-reference-no.: KR 240/16

Test results

1. Material composition: was given under KC 765/16 and approved
2. Testing of the material performed due to DVGW-Standard W 270: Test report Hygiene-Institut Gelsenkirchen W225585e-13-SI of 23.01.2013
3. Basic requirements:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [C _{TAP}] [mg/l]	0,06	< 0,04	< 0,04	≤ 0,5

Warm water 60°C	1. extr.	2. extr.	3. extr.	6. extr.	7. extr.	Standard value for 7. extr.
Clarity, colour, taste, odour, foaming	4	4	nsa	nsa	nsa	≤ 4
C-migration [C _{TAP}] [mg/l]	0,31	0,30	0,35	0,16	0,18	≤ 0,5

The examined tube samples PP-R, green comply with the requirements of KTW-guideline of Umweltbundesamt (UBA) (Bundesgesundheitsblatt current version) in the range of tubes with DN < 80mm (drinking water installation).

Remarks:

Reference to the original German text is recommended if necessary.

This certificate expires on 24.11.2021, if not otherwise limited by product standards/certification reasons or by changes in the procedural conditions.

Karlsruhe, 25.11.2016



Dr. J. Klinger / i.V. Dr.-Ing. R. Turković
Head of the Test Centre

The publication of this test certificate - completely or in parts - is not permitted except of written approval by the test centre

TEST CERTIFICATE

Concerning the examination of tube samples 5-layer pipe (PP-R multiple layer plastic pipe strenghtened with glass fibre) in accordance with the recommendations of the KTW-Leitlinie des Umweltbundesamtes (UBA)

Period of Inspection: Qualifying test 2010
 Manufacturer: POLOPLAST GmbH, 87640 Ebenhofen
 Dimension: 63 x 9,2mm
 Material identification: [Poloplast ML⁵]
 Samples received: 15.11.2010
 Sampler: manufacturer
 TZW-reference-no.: KR 034/12

Test results

1. Material composition was given under KC 640/10 and approved
2. Testing of the material performed due to DVGW-Standard W 270: ordered
3. Basic requirements:

Cold water 23°C	1. – 3. day	4. – 6. day	7. – 9. day	Standard value for 3. extr.
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	not significantly affected
C-migration [mg C/m ² d]	3,5	0,4	0,4	≤ 2,5
Cl ₂ -consumption [mg Cl ₂ /m ² d]	3,6	1,8	1,1	

2 Ingredients under confidentiality	Approximate value kept	Drinking Water-SML-values
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Warm water 60°C	1.extr.	2. extr.	3. extr.	6. extr.	7. extr.	Standard value for 7. extr
Clarity, colour, taste, odour, foaming	nsa	nsa	nsa	nsa	nsa	≤ 4
C-migration [mg C/m ² d]	2,9	3,2	2,6	2,1	1,4	≤ 2,5

2 Ingredients under confidentiality	Approximate value kept	Drinking Water-SML-values
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The examined tube samples 5-layer pipe (PP-R multiple layer plastic pipe strenghtened with glass fibre) comply with the requirements of KTW-Leitlinie des Umweltbundesamtes (Bges.BI. 2005).

Remarks:

This certificate is referring to the first evaluation (TZW-Az.: KR 256/10) dated on 10.02.2011.

Reference to the original German text is recommended if necessary.

Karlsruhe, 10.02.2011



Dr. J. Klinger / i.A. Dr.-Ing. R. Turkovic
Head of the Test Center

The publication of this test certificate - completely or in parts - is not permitted except of written approval by the test center

Certificate

SKZ - Testing GmbH awards the following company

**Poloplast GmbH
Kirnachstraße 17
87640 Ebenhofen
Germany**

Production site: Poloplast GmbH, 87640 Ebenhofen

the right to use the **SKZ** testing and inspection mark



A 553

for the following plastic products

**Pressure pipe system, group 1 and 2
Pipes and fittings made of polypropylene PP-R**

SKZ Specification for Tests and Inspection HR 3.10

Users of the **SKZ** mark are obliged to observe the required regulations for the production and testing of these products.

Date of initial certification: 20 September 2010

Date of expiry: 1 August 2023

Würzburg, 2 August 2018



i.V.



Dipl.-Ing. Hans-Peter Krause
Certification body

The original language of this certificate is German. In case of doubt, the German version is obligatory.

Approval Number: 1910532
Test Report: MA6611/J/1



19th November 2019

Poloplast GmbH
Kirnachstrasse 17,
87640 Ebenhofen,
Germany

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE - COMPONENTS.

5260

'POLO-ECOSAN Fittings'. Green coloured (opaque), injection moulded PP-R fittings. For use with water up to 70°C.

APPROVAL NUMBER: 1910532
APPROVAL HOLDER: POLOPLAST GMBH

The Scheme reserves the right to review approval.
Approval 1910532 is valid between October 2019 and October 2024

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

A handwritten signature in black ink, appearing to read 'Jason Furnival', written in a cursive style.

Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.

Approval Number: 1910531
Test Report: MA6611/J/1 & MA6611/J



28th November 2019

Poloplast GmbH
Kirnachstrasse 17,
87640 Ebenhofen,
Germany

Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

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MATERIAL APPROVAL

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POLYPROPYLENE - COMPONENTS.

5260

'POLO-ECOSAN SDR6 & POLO-ESCOSAN ML5 pipes'.

'POLO-ECOSAN SDR6 Pipe' is a green coloured (opaque), extruded PP-R pipe.

'POLO-ESCOSAN ML5' is an extruded, multi-layered polypropylene pipe consisting of a grey coloured PP-RCT inner layer, four, grey coloured PP-R inner layers and a green coloured PP-R outer layer.

Both pipes are for use with water up to 70° C.

APPROVAL NUMBER: 1910531
APPROVAL HOLDER: POLOPLAST GMBH

The Scheme reserves the right to review approval.
Approval 1910531 is valid between October 2019 and October 2024

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

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Jason Furnival
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

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