

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.

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



DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DW-8501AS2288

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 with special pipes: drinking water installation systems (8801)
Product Description <i>Produktbezeichnung</i>	drinking water installation system consisting of pipes made of plastic (PP-R 80) and fittings made of plastic (PP-R 80)
Model <i>Modell</i>	POLYMUTAN
Test Reports <i>Prüfberichte</i>	laboratory control test: 51319/1.1/134063 from 24.04.2019 (SKZ) mechanical test: 96913/2.1/109561 from 14.04.2014 (SKZ) mechanical test: 51313/2.1/109558 from 14.04.2014 (SKZ) mechanical test: 96908/2.4/84165 from 02.12.2008 (SKZ) mechanical test: 96908/2.3/84164 from 02.12.2008 (SKZ) KTW testing: KR 024/19 from 23.04.2019 (TZW) KTW testing: KR 091/14 from 23.06.2014 (TZW)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 534 (01.05.2004) DVGW W 544 (01.05.2007) UBA KTW (07.03.2016) DVGW W 270 (01.11.2007)
Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i>	12.07.2024 / 19-0224-WNV

24.05.2019 LE 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

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53123 Bonn

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Fax +49 228 91 88 - 993

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info@dvgw-cert.com

Type <i>Typ</i>	Technical Data <i>Technische Daten</i>	Remarks <i>Bemerkungen</i>
POLYMUTAN	diameter: 16 mm	
POLYMUTAN	diameter: 20 mm	
POLYMUTAN	diameter: 25 mm	
POLYMUTAN	diameter: 32 mm	
POLYMUTAN	diameter: 40 mm	
POLYMUTAN	diameter: 50 mm	
POLYMUTAN	diameter: 63 mm	

Hints of Utilization / Remarks***Verwendungshinweise / Bemerkungen***

plastic pipe to use: PP-R 80, Poloplast GmbH, D - 87640 Ebenhofen

Connector to use: plastic, type S-KK, PP-R 80, Poloplast, D - 87640 Ebenhofen



CERT

DVGW type examination certificate

DVGW-Baumusterprüfzertifikat

DW-8501AT2610

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 with special pipes: drinking water installation systems (8801)
Product Description <i>Produktbezeichnung</i>	drinking water installation system consisting of pipes made of plastic (PP-R 80) and fittings made of plastic (PP-R 80)
Model <i>Modell</i>	POLYMUTAN
Test Reports <i>Prüfberichte</i>	laboratory control test: 148016/1.1/119965 from 14.03.2016 (SKZ) laboratory control test: 200716/1.1/119967 from 30.05.2016 (SKZ) mechanical test: 200710/2.4/93823 from 25.03.2011 (SKZ) mechanical test: 200710/2.3/93822 from 25.03.2011 (SKZ) mechanical test: 200710/2.2/93821 from 25.03.2011 (SKZ) KTW testing: KR 099/16 from 25.05.2016 (TZW) KTW testing: KR 101/16 from 13.07.2016 (TZW)
Test Basis <i>Prüfgrundlagen</i>	DVGW W 534-(P) (01.07.2015) DVGW W 544 (01.05.2007) UBA KTW (07.10.2008) DVGW W 270 (01.11.2007)
Date of Expiry / File No. <i>Ablaufdatum / Aktenzeichen</i>	28.09.2021 / 16-0450-WNV

17.10.2016 GI A-1/2

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

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Type <i>Typ</i>	Technical Data <i>Technische Daten</i>	Remarks <i>Bemerkungen</i>
POLYMUTAN	diameter: 75 mm	
POLYMUTAN	diameter: 90 mm	

Hints of Utilization / Remarks**Verwendungshinweise / Bemerkungen**

only to use with pipe: plastic, PP-R 80, POLOPLAST GmbH, D-87640 Ebenhofen

only to use with fittings: plastic, PP-R 80, type S-KK, POLOPLAST GmbH, D-87640 Ebenhofen

Self-sealing plastic-threads are not part of this certification.

DVGW

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

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