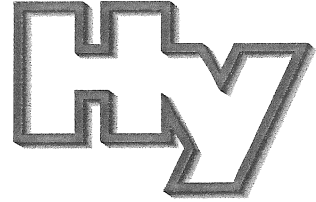


Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Direktor: Prof. Dr. rer. nat. L. Dunemann

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Reference-No.: K-258076-15-Ko
Contact person: Dr. Andreas Koch

Gelsenkirchen, 18.06.2015

TEST REPORT according to the KTW-Guideline

Order of: 02.04.2015

Field of application: Fittings for pipes with DN < 80 mm
cold water and hot water (23°C and 85°C)

Product: Injection moulding parts made of Ultrason E2010 G4 for Series
ESBE VTA300

Test Specimen: Pressure balancing cup part VTA330 Art. no.: 98080430, beige,
surface: 4705 mm² (manufacturers information)

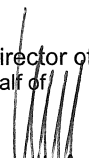
Date of receipt: 16.04.2015

Sampler: transmitted by mail

Start of migration test: 19.05.2015

End of test: 16.06.2015

The Director of the Hygiene-Institute
on behalf of


Dr. rer. nat. Andreas Koch
Head of the Dept. for water
hygienic material testing

This test report consists of 3 pages.

The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may completely known and no other substances are present in the product. The validity of this document expires in case of modifications in the composition of the product or the processing conditions. The results and evaluations refer to the groups of test items. This document may not be published without our written permission only complete and unchanged or duplicated.



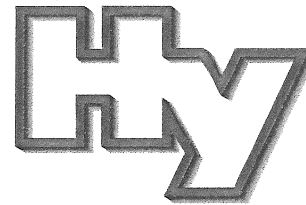
Deutsche
Akkreditierungsstelle
D-PL-13042-02-00

Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Direktor: Prof. Dr. rer. nat. L. Dunemann

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Reference-No.: K-258076-15-Ko
Contact person: Dr. Andreas Koch

Gelsenkirchen, 18.06.2015

TEST CERTIFICATE according to the KTW-Guideline

Product: Injection moulding parts made of Ultrason E2010 G4
for Series ESBE VTA300

Test specimens: Pressure balancing cup part VTA330 Art. no.: 98080430, beige, surface: 4705 mm²

The test specimens meet the requirements according to the test report-no.: **K-258076-15-Ko** dated **18.06.2015** for the following applications and temperatures, as far as technically suited:

Applications:	cold water (23°C)	warm water (60°C)	hot water (85°C)
Pipes with DN < 80 mm (domestic distribution)	---	---	---
Pipes of diameter 80 mm ≤ DN < 300 mm (supply pipes)	---	---	---
Pipes of diameter DN ≥ 300 mm (main pipes)	---	---	---
Fittings for pipes with DN < 80 mm	passed	---	passed
Fittings for pipes with 80 mm ≤ DN < 300 mm	passed	---	passed
Fittings for pipes with DN ≥ 300 mm	passed	---	passed
Sealings for pipes with DN < 80 mm	passed	---	passed
Sealings for pipes with 80 mm ≤ DN < 300 mm	passed	---	passed
Sealings for pipes with DN ≥ 300 mm	passed	---	passed
Tanks in the domestic installations including repair systems	---	---	---
Tanks other than in domestic installations including repair systems	---	---	---

If pipes, sealings or fittings and ancillaries do not differ in their material composition and process of manufacture, testing of the smallest diameter of the product range is sufficient.

This test certificate is valid beginning with the date of issue and is ending by **18.06.2020** as far as there are no changes in the formula. After this time it can be extended for further 5 years if demanded.

The Director of the Hygiene-Institute
on behalf of

Dr. rer. nat. Andreas Koch
Head of the Dept. for water
hygienic material testing



The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may completely known and no other substances are present in the product. The validity of this document expires in case of modifications in the composition of the product or the processing conditions. The results and evaluations refer to the groups of test items. This document may not be published without our written permission only complete and unchanged or duplicated.



Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., Vereinsregister: VR 519 Amtsgericht Gelsenkirchen, USt-ID: DE125018356
Vorstand: Prof. Dr. Werner Schlake (Vors.), Prof. Dr. Jürgen Kretschmann, Dr. Emanuel Grün, Volker Vohmann, Prof. Dr. Lothar Dunemann (geschäftsf. Vorstand)