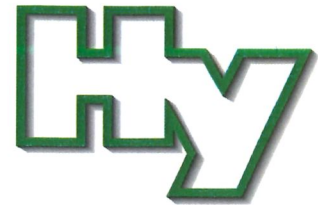


Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Umweltmedizin
Direktor: Prof. Dr. rer. nat. L. Dunemann



HYGIENE-INSTITUT · Postfach 10 12 55 · 45812 Gelsenkirchen / GERMANY

DEHOUST GmbH
Gutenbergstr. 5-7
69181 Leimen
GERMANY

Visitor's/Parcel Address:
Rotthäuser Str. 21
45879 Gelsenkirchen

Telephone +49 (0) 209 9242-0
Extension +49 (0) 209 9242-210
Telefax +49 (0) 209 9242-212
E-Mail a.koch@hyg.de
Internet www.hyg.de

Reference-No.: K-319218-19-Ko/st
Contact person: Dr. Andreas Koch
Translation: K-318985-19-Ko

Gelsenkirchen, 09.10.2019

TEST CERTIFICATE

according to the KSW-Recommendation by the Federal Health Authorities
to the aptitude test for plastic materials in swimming and bathing water area
(issue date 1989-10)

Product: program for reservoirs type AQF 570 until 1000;
PE storage tanks 1000 until 4000, uncoloured, black, blue and grey

Test specimen: tanks segments for reservoir program, blue
dimensions: 200x200x4 mm, 150x150x4 mm, 100x100x4 mm,
200x80x4 mm, 200x60x4 mm (manufacturer's information)


Test result:

The above-mentioned test specimens meet the requirements of the KSW-Recommendation according to the test report-no.: **K-318984-19-Ko and K-318965-19-Ko (colourfastness) dated 30.09.2019.**

This test certificate is valid beginning with date of issue and ending by **30.09.2024**, as far as there are no changes in the formula. After this time it can be extended for further 5 years if demanded.

This test certificate is only valid in combination with a test certificate according to the DVGW Work Sheet W 270.

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 are 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 This document may not be published without our written permission only complete and unchanged or duplicated.

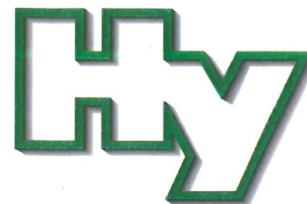
Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., Vereinsregister: VR 519 Amtsgericht Gelsenkirchen, USt-ID: DE125018356
Vorstand: Prof. Dr. Jürgen Kretschmann (Vors.), Dr. Emanuel Grün, Dr. Dirk Waider, Joachim Löchte, Prof. Dr. Lothar Dunemann (geschäftsf. Vorstand)

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.



HYGIENE-INSTITUT · Postfach 10 12 55 · 45812 Gelsenkirchen / GERMANY

DEHOUST GmbH
Gutenbergstr. 5-7
69181 Leimen
GERMANY

Visitor's/Parcel Address:
Rotthäuser Str. 21
45879 Gelsenkirchen

Telephone +49 (0) 209 9242-0
Extension +49 (0) 209 9242-210
Telefax +49 (0) 209 9242-212
E-Mail a.koch@hyg.de
Internet www.hyg.de

Reference-No.: K-319219-19-Ko/st
Contact person: Dr. Andreas Koch
Translation: K-318964-19-Ko

Gelsenkirchen, 09.10.2019

TEST CERTIFICATE according to the KTW Guideline (issue date: 07.03.2016)

Product: program for reservoirs type AQF 570 until 1000;
PE storage tanks 1000 until 4000, uncoloured, black, blue and grey

Test specimen: tanks segments for reservoir program, blue
dimensions: 200x200x4 mm, 150x150x4 mm, 100x100x4 mm,
200x80x4 mm, 200x60x4 mm (manufacturer's information)

The above mentioned product was tested according to the Guideline on the hygienic assessment of organic materials in contact with drinking water of the German Environment Agency. Pursuant to the test report-no.: **K-318964-19-Ko** and **K-318965-19-Ko (colourfastness)** dated **30.09.2019** the product meets the requirements for the product group:

**Containers in the drinking water installation including repair systems
in contact with cold water (23 °C) and warm water (60 °C).**

All product groups for which the requirements are met are summarised on the back side.

The certificate is valid providing that the requirements, laid down in the Guideline regarding the testing of the microbial growth are fulfilled. This can be verified for the product f.e. with a valid test certificate according to the DVGW technical rule W 270.

This test certificate is valid beginning with the date of issue and is ending by **21.03.2021**.

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 are 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. Jürgen Kretschmann (Vors.), Dr. Emanuel Grün, Dr. Dirk Waider, Joachim Löchte, Prof. Dr. Lothar Dunemann (geschäftsf. Vorstand)

The mentioned product meets the requirements according to the test report-no.: **K-318964-19-Ko and K-318965-19-Ko (colourfastness)** dated **30.09.2019** for the following product group(s) and temperature(s), as far as technically suited.

Product group	cold water (23 °C)	warm water (60 °C)	hot water (85 °C)
Pipes with DN < 80 mm (service and domestic pipes)			
Pipes with 80 mm ≤ DN < 300 mm (distribution pipes)			
Pipes with DN ≥ 300 mm (large distribution, mains)			
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	
Seals for pipes with DN < 80 mm	passed	passed	
Seals for pipes with 80 mm ≤ DN < 300 mm	passed	passed	
Seals for pipes with DN ≥ 300 mm	passed	passed	
Containers in the drinking water installation including repair systems	passed	passed	
Containers outside the drinking water installation including repair systems	passed	passed	
Repair systems for containers in the drinking water installation with 1/100 of the surface area of the container	passed	passed	
Repair systems for containers outside the drinking water installation with 1/100 of the surface area of the container	passed	passed	
Small contact area components of materials for pipes with DN < 80 mm that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed	passed	
Small contact area components of materials for pipes with 80 mm ≤ DN < 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed	passed	
Small contact area components of materials for pipes with DN ≥ 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed	passed	

If further products or components with the same formulation are produced with the same process at one production site and differ only in geometry, this test certificate applies to further parts of this product range.

