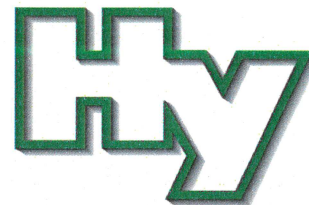


Hygiene-Institut des Ruhrgebiets

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-324683-20-Ä-Ko/st
Contact person: Dr. Andreas Koch

Gelsenkirchen, 14.02.2020

TEST CERTIFICATE according to the TPE-Transitional Recommendation (issue date: 11.03.2019)

Product: CLEAN CABLE

Test Specimen: Clean Cable 4G 1.5 mm² (blue)
sheath Ø 10.5 mm, sheath thickness: 1.60 mm, insulation Ø 3.00 mm,
insulation thickness: 0.70 mm (manufacturer's information)

The above mentioned product was tested according to the Guideline on the hygienic assessment of thermoplastic materials in contact with drinking water of the German Environment Agency. Pursuant to the test report-no.: **K-286545-17-Bs/st dated 05.07.2017** and **K-324683-20-Ko/st dated 14.02.2020** the product meets the requirements for the product group:


Fittings for pipes with DN < 80 mm in contact with cold water (23 °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 **05.07.2022**. The test certificate may be extended for further five years, provided that the formulation, the relevant evaluation criteria (restrictions in the positive lists), the production process and the production place of the product have not changed.

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 This document may not be published without our written permission only complete and unchanged or duplicated.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-286545-17-Bs/st dated 05.07.2017** and **K-324683-20-Ko/st dated 14.02.2020** 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		
Fittings for pipes with 80 mm ≤ DN < 300 mm	passed		
Fittings for pipes with DN ≥ 300 mm	passed		
Seals for pipes with DN < 80 mm	passed		
Seals for pipes with 80 mm ≤ DN < 300 mm	passed		
Seals for pipes with DN ≥ 300 mm	passed		
Containers in the drinking water installation including repair systems			
Containers outside the drinking water installation including repair systems			
Repair systems for containers in the drinking water installation with 1/100 of the surface area of the container	passed		
Repair systems for containers outside the drinking water installation with 1/100 of the surface area of the container	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		
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		
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		

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.