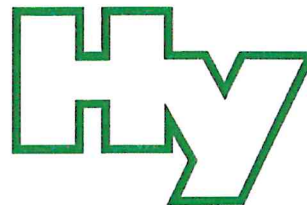


Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

Director: Dr. Thomas-Benjamin Seiler

Legal Entity: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Reference-No.: K-351648-21-Kr/st
Contact person: Dr. Nicole Krüger

Gelsenkirchen, 02.11.2021

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

Product: Hose LCPW

Test specimen: hose LCPW made of TPSiV 5300 A8503 NAT 25644, single layer (white)
Ø_{outer} 1.1 cm, Ø_{inner} 0.82 cm (manufacturer's information)

The above mentioned product was tested according to the transitional recommendation on the provisional hygienic assessment of thermoplastic materials in contact with drinking water of the German Environment Agency. Pursuant to the test report-no.: **K-351648-21-Kr/st dated 02.11.2021** the product meets the requirements for the product group:

**Pipes with DN < 80 mm 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 **02.11.2026**. 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. Nicole Krüger
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 This document may not be published without our written permission only complete and unchanged or duplicated.

Legal Entity: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., **Register:** VR 519 Local Court Gelsenkirchen (Germany); **VAT ID:** DE125018356
Directorate: Prof. Dr. Jürgen Kretschmann (Head), Dr. Emanuel Grün, Dr. Dirk Waider, Joachim Löchte, Dr. Thomas-Benjamin Seiler (Executive Member)

The mentioned product meets the requirements according to the test report-no.: **K-351648-21-Kr/st** dated **02.11.2021** 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)	passed	passed	
Pipes with 80 mm ≤ DN < 300 mm (distribution pipes)	passed	passed	
Pipes with DN ≥ 300 mm (large distribution, mains)	passed	passed	
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.