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:	W-325635e-20-Sl/to
Before:	**W-254633e-15-Sl/le**
Contact person:	Mrs. Dr. Ch. Schell

Gelsenkirchen, 06.03.2020

TEST CERTIFICATE

(Transcription and prolongation of test certificate W-254633e-15-Sl/le)

Enhancement of Microbial Growth on Materials to Come into Contact with Drinking water
Test pursuant to DVGW Technical Standard W 270, November 2007

Client:	Kraiburg TPE GmbH & Co. KG Friedrich-Schmidt-Str. 2 84478 Waldkraiburg
Test material:	**TF(1)WH(2) – (3)**
Test method:	Material test

The material **TF(1)WH(2)**, tested in the versions:

- **TF5WHA nature** (test report **W-254633-15-Sl/le** of **10.03.2015**) and
- **TF8WHA nature** (test report **W-254634-15-Sl/le** of **10.03.2015**)

is conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details regarding testing procedure and test results are itemized in the test reports.
This test certificate also covers the range of materials between **TF5WHA nature (55ShA)** and **TF8WHA nature (85 ShA)** (all in material colour).
In detail it concerns the compounds **TF(1)WH(2)** whereat (1) stands for the numbers 5 - 8 and (2) stands for B (even hardness) or A (intermediate hardness). Both descriptions in combination indicate the relative Shore grade (e.g. TF(5)WH(A) = 55 ShA or TF(8)WH(A) = 85 ShA).

The test results and assessments refer exclusively to the examined test specimens and all applicable statutory regulations. The validity of the document expires in case of modifications in the composition of the material or the processing conditions. This present document may only be published and reproduced unabridged and unaltered. This document is no DVGW certification.

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, Prof. Dr. Lothar Dunemann (Executive Member).

The material **TF(1)WH(2) – (3)**, tested in the versions:

- **TF5WHA plus 2% Yellow Pigment 2** (test report **W-254635-15-Sl/le** of **10.03.2015**)
- **TF5WHA plus 2% Blue Pigment 1** (test report **W-254636-15-Sl/le** of **10.03.2015**)
- **TF5WHA plus 3% Black Pigment** (test report **W-254637-15-Sl/le** of **10.03.2015**)
- **TF8WHA plus 2% Yellow Pigment 2** (test report **W-254638-15-Sl/le** of **10.03.2015**)
- **TF8WHA plus 2% Blue Pigment 1** (test report **W-254639-15-Sl/le** of **10.03.2015**)
- **TF8WHA plus 3% Black Pigment** (test report **W-254640-15-Sl/le** of **10.03.2015**)

is conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details regarding testing procedure and test results are itemized in the test reports.
The test certificate also covers the materials (Shore grades) between **TF5WHA and TF8WHA** (all in the respective material colour).
In detail it concerns the compounds **TF(1)WH(2) – (3)** whereat (3) stands for three-figure or four-figure code of the respective colouring (e.g. TF(5)WH(A) – 904 = 55 ShA RAL 9004 or TF(8)WH(A) – 904 = 85 ShA RAL 9004).

This test certificate covers <u>in addition</u> all further colour varieties of the basic materials which were disclosed to the test institute as there are:

- Orange Pigment
- Yellow Pigment 1
- Yellow Pigment 3
- White Pigment 1
- Green Pigment 1
- Red Pigment 1
- Red Pigment 3
- Brown Pigment 1

as well as their mixtures provided that the overall amount added to the basic material does not exceed the maximum level tested as described before.
This test certificate is valid from the date of issue and, given that the conditions and requirements remain unaltered, expires on **10.03.2025**.

The Director of the Institute
p.p.

Dr. Ch. Schell
Head of Laboratory
Department of Water Hygiene and Environmental Microbiology

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