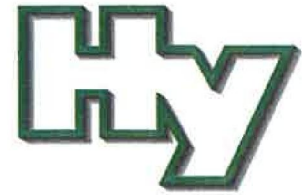


# Hygiene-Institut des Ruhrgebiets

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

The Nawaplastic Industries (Saraburi) Co., Ltd.  
1 Siam Cement Road, Bangsue,  
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Reference: W-253429e-15-SI/le  
Contact person: Mrs. Dr. Ch. Schell

Gelsenkirchen, den 13.02.2015

## TEST CERTIFICATE

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

**Client:** The Nawaplastic Industries (Saraburi) Co., Ltd.  
1 Siam Cement Road, Bangsue,  
BANGKOK  
THAILAND 10800

**Test material:** PP-R Pipe Tra Chang

**Test method:** Material test

According to test report **W-253429e-15-SI/le** of **13.02.2015**, the material **PP-R Pipe Tra Chang** 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 report.

This test certificate is valid from the date of issue and, given that the conditions and requirements remain unaltered, expires on **13.02.2020**. Upon request of the client, the validity may be extended up to another 5 year term provided that the specifications of Technical Standard W 270 are met.

The Director of the Institute

p.p.

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

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.



Deutsche  
Akkreditierungsstelle  
D-PL-13042-02-00

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 (geschäftsführ. Vorstand)