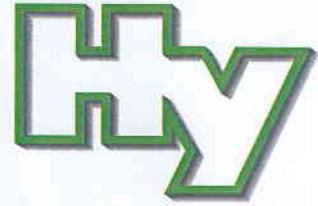


# Hygiene-Institut des Ruhrgebiets

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

Kimplas Piping Systems Ltd.  
Att.: Kiran Sarode Jadhav  
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Internet www.hyg.de

Contact person: Dr. Andreas Koch

Gelsenkirchen, 05.01.2016

## M E M O

**Test certificate and test report (initial test 2015)**


**Order of 24.09.2015 (sampling record MPA Darmstadt)**

Dear Mr. Sarode,

attached you can find the test certificate and the test report for your product "**D 160-225x32mm Flexifit Tapping Tee (01 No.) and D 180mm Coupler (01 No.)**".

The results were sent to the attention MPA. If necessary please send the results to the attention DVGW also.

With kind regards

  
Dr.rer.nat. Andreas Koch  
Head of the Dept. for water  
hygienic material testing

Attachments

# Hygiene-Institut des Ruhrgebiets

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Reference-No.: K-265759-16-Ko  
Contact person: Dr. Andreas Koch

Gelsenkirchen, 05.01.2016

## TEST CERTIFICATE according to the KTW-Guideline

**Product:** D 160-225x32mm Flexifit Tapping Tee (01 No.) and D 180mm Coupler (01 No.)  
made of Basell CRP 100 black

**Test specimen:** Flexifit Tapping Tee surface: 850 cm<sup>2</sup>, Coupler surface: 1970,41 cm<sup>2</sup> (manufacturers information)

**Kind of test:** [X] Initial test 2015

The test specimen meets the requirements according to the test report dated **05.01.2016 Ref.-No.: K-265759-16-Ko** for the following applications and temperatures, as far as technically suited.

Applications:	cold water (23°C)	warm water (60°C)	hot water (85°C)
Pipes with DN < 80 mm (domestic distribution)	---	---	---
Pipes of diameter 80 mm ≤ DN < 300 mm (supply pipes)	---	---	---
Pipes of diameter DN ≥ 300 mm (main pipes)	---	---	---
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	---	---
Sealings for pipes with DN < 80 mm	passed	---	---
Sealings for pipes with 80 mm ≤ DN < 300 mm	passed	---	---
Sealings for pipes with DN ≥ 300 mm	passed	---	---
Tanks in domestic installations including repair systems	---	---	---
Tanks other than in domestic installations including repair systems	---	---	---

If pipes, sealings or fittings and ancillaries do not differ in their material composition and process of manufacture, testing of the smallest diameter of the product range is sufficient.

This test certificate is valid beginning with the date of issue and is ending by **05.01.2021** as far as there are no changes in the formula. After this time it can be extended for further 5 years if demanded.

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 may 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.

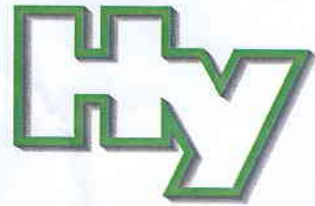


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Internet www.hyg.de

Reference-No.: **K-265759-16-Ko**  
Contact person: Dr. Andreas Koch

Gelsenkirchen, 05.01.2016

## TEST REPORT according to the KTW-Guideline

**Order of:** 24.09.2015 (sampling record MPA Darmstadt, Germany;

**Field of application:** fittings for pipes DN < 80 mm (domestic distribution)  
cold water (23°C)

**Product:** D 160-225x32mm Flexifit Tapping Tee (01 No.) and D 180mm Coupler (01 No.)  
made of Basell CRP 100 black

**Specimen:** Flexifit Tapping Tee surface: 850 cm<sup>2</sup>, Coupler surface: 1970,41 cm<sup>2</sup> (manufacturers  
information)

**Date of receipt:** 25.09.2015

**Sampler:** transmitted by mail

**Start of migration test:** 17.11.2015

**End of test:** 23.12.2015

The Director of the Hygiene-Institute  
on behalf of

Dr. rer. nat. Andreas Koch  
Head of the Dept. for water  
hygienic material testing

This test report consists of 2 pages.

The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may 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.



test results cold water (23°C)

**Product:** D 160-225x32mm Flexifit Tapping Tee (01 No.) and D 180mm Coupler (01 No.) made of Basell CRP 100 black  
**Specimen:** Flexifit Tapping Tee surface: 850 cm<sup>2</sup>, Coupler surface: 1970,41 cm<sup>2</sup> (manufacturers information)  
**Formulation:** submitted and checked (No. 6426)

**Conversion factor:** 4  
**SV-ratio migration test:** 8,50 dm<sup>2</sup> / 2,00 dm<sup>3</sup> ± 4,25 dm<sup>-1</sup>  
**SV-ratio odour/flavour test:** 19,70 dm<sup>2</sup> / 13,14 dm<sup>3</sup> ± 1,50 dm<sup>-1</sup>

Parameter	Method	Test cycle / Result			Requirements for fittings for pipes DN < 80 mm
		1 4. day	2 7. day	3 10. day	
Colour	Hy-KTW-14.05	colorless	colorless	colorless	n.s.e..
Turbidity	Hy-KTW-14.05	clear	clear	clear	n.s.e..
Tendency to foam formation	Hy-KTW-14.05	none	none	none	n.s.e..
Threshold odour number (23°C)	DIN EN 1622	1-2 *)	1-2 *)	1	< 2
Threshold flavour number (23°C)	DIN EN 1622	n.e.	n.e.	1	< 2
Total organic carbon (TOC) mg/dm <sup>2</sup> x d	DIN EN 1484	0,115	0,025	0,012	≤ 0,125
Formulation specific parameters with restrictions		The Guidance Levels are passed, as far as analysable <sup>1)</sup>			Guidance Level passed

\*) tentative determination of Threshold odour number

n.s.e.: not significant effected

n.e.: not examined

<sup>1)</sup> Attached results are partially not accredited.