

**Test report PB2025002497**  
**Certificate number <sup>a)</sup>: KIWA-23-DW-10361-1**  
**Sample-no: 122500592-0004**

**kiwa**

**Kiwa GmbH**  
Produktprüfung  
Tannenweg 22m, Speicher I  
18059 Rostock

Tel. +49 38208 637 0  
Fax +49 38208 637 49  
[www.kiwa.com](http://www.kiwa.com)

Kiwa GmbH, Tannenweg 22m, Speicher I, 18059 Rostock

Plastitalia S.p.A  
Mr. Vittorio Astone  
Contrada Ferrara  
98061 Brolo (ME)  
Italy



Die Akkreditierung gilt für die in der Urkundenanlage  
D-PL-11217-03-00 aufgeführten Prüfverfahren.

**Test report PB2025002497**

**Client:** Plastitalia S.p.A  
**Date:** 28 Aug 2025  
**Purpose of test:** Examination of material according to KTW-BWGL (23 August 2024)  
**Certificate number <sup>a)</sup>:** KIWA-23-DW-10361-1  
**Material <sup>a)</sup>:** Hostalen CRP 100 Resist CR Black (from Lyondell Basell)  
**Sample was taken by <sup>a)</sup>:** Giuseppe Mondello (Kiwa)  
**Date of sample receipt:** 3 Jun 2025  
**Date of analysis:** 3 Jun 2025 to 28 Aug 2025  
**Place of testing:** Kiwa GmbH Produktprüfung  
18059 Rostock, Tannenweg 22 m  
**This report was created by:** Melanie Lenke

The test results relate only on the items tested. Without the written approval of the testing laboratory, a duplication in extracts of the test report is not permitted.

<sup>a)</sup> information of the client. <sup>k)</sup> amendment.

Geschäftsführer: Andreas Müller, Dr. Gero Schönwaßer  
Amtsgericht Hamburg, HRB 130568, St.Nr.: 46/736/03268

Client: Plastitalia S.p.A  
Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
Sample-no 122500592-0004

## 1 Examined product

Trade name <sup>a)</sup>: PE100 fittings, 75 mm, 45° elbow  
Base material: Hostalen CRP 100 Resist CR Black (from Lyondell Basell)  
Manufacturer <sup>a)</sup>: Plastitalia S.p.A.  
Production location <sup>a)</sup>: IT-98061 Brolo, Italy  
Intended use of the product: Drinking water distribution  
Sampling from: Storage  
Production date <sup>a)</sup>: Apr 2025  
Lot / Batch number <sup>a)</sup>: Compound batch: EB2545T01  
Sampling date <sup>a)</sup>: 20 May 2025  
Date of sample receipt: 3 Jun 2025  
Material photograph:



Certificate number <sup>a)</sup>: KIWA-23-DW-10361-1  
Inspector <sup>a)</sup>: Giuseppe Mondello (Kiwa)

## 2 Recipe evaluation

The recipe evaluation does not form part of this test report. The recipe is registered under R20717.

### 3 Result of the testing

#### 3.1 Basic, material and formulation specific requirements

The conditions of the performed migration tests, the (raw) data of the migration water and information concerning the applied methods of analysis are laid down and in accordance with several relevant European standards described in detail in annex 1 of this test report.

The test conditions and final results of all tests are summarized and presented in Table 1.

Table 1: The test conditions and final test results at 23°C

Parameter	Migration test	Method of analysis	Results of the 3 <sup>rd</sup> and 22 <sup>nd</sup> (TOC) migration period	Threshold value (migration at 23°C)
Threshold Odour Number (TON)	DIN EN 1420: 2016-05	DIN EN 1622: 2006-10	<2 TON	≤ 2 TON
Turbidity	DIN EN 1420: 2016-05	DIN EN ISO 7027-1 (C21): 2016-11	<0,1 FNU	≤ 0,5 FNU
Colour (410 nm)	DIN EN 1420: 2016-05	DIN EN ISO 7887 (C 1): 2012-04	<2 mg/l Pt	≤ 10 mg/l Pt
Foaming	DIN EN 1420: 2016-05	visually	nsa	nsa
Parameter	Migration test	Method of analysis	C <sub>Tap</sub> conversion factor = 2	MTC <sub>tap</sub> (migration at 23°C)
Total Organic Carbon (TOC)	DIN EN 12873-1: 2014-09	DIN EN 1484: 2019-04	<0,027 mg/l	0,5 mg/l

nsa = not significantly affected

#### Opinions and Interpretations:

**The examined sample submitted for testing by Plastitalia S.p.A manufactured from Hostalen CRP 100 Resist CR Black meets the Basic requirements mentioned in point 5.3.2 to 5.3.5 of the KTW-BWGL of the UBA (23 August 2024) for product group 'Ancillaries (P1)' at 23°C.**

#### 3.2 Requirements for the testing of the growth of microorganisms

The enhancement of microbial growth acc. DIN EN 16421 (method B) was not tested by Kiwa GmbH and is not part of the hygienic assessment.

Client: Plastitalia S.p.A  
 Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
 Sample-no 122500592-0004



**Annex 1: Information about the migration tests, the (raw) data and the applied methods of analysis**

Table 2: Conditions of the migration tests at 23°C

Aspect	Information concerning the samples				Dates concerning the migration tests						
	Number of test pieces used together in the Migration test	Surface (dm <sup>2</sup> )	Volume of migration water (dm <sup>3</sup> )	S/V ratio (dm <sup>-1</sup> )	Pretreatment of 24 h	1 <sup>st</sup> migration period		2 <sup>nd</sup> migration period		3 <sup>rd</sup> migration period	
						Start	Completion	Start	Completion	Start	Completion
Organoleptic <sup>1)</sup>	each one cutted piece	4,6	3,07	1,5	16/06/25 - 17/06/25	17/06/25	20/06/25	20/06/25	23/06/25	23/06/25	26/06/25
Toxicological <sup>2)</sup>	each one piece	9,2	1,84	5	16/06/25 - 17/06/25	17/06/25	20/06/25	20/06/25	23/06/25	23/06/25	26/06/25

Procedural blanks: Glass was used as blank sample.

1) Organoleptic = Threshold Odour Number (TON), Turbidity, Colour (410 nm), Foaming

2) Toxicological = Total Organic Carbon (TOC)

Table 2: Continuation at 23°C

Aspect	Information concerning the samples				Dates concerning the migration tests						
	Number of test pieces used together in the Migration test	Surface (dm <sup>2</sup> )	Volume of migration water (dm <sup>3</sup> )	S/V ratio (dm <sup>-1</sup> )	Pretreatment of 24 h	5 <sup>th</sup> migration period		7 <sup>th</sup> migration period		9 <sup>th</sup> migration period	
						Start	Completion	Start	Completion	Start	Completion
Toxicological	each one piece	9,2	1,84	5	16/06/25 - 17/06/25	30/06/25	03/07/25	07/07/25	10/07/25	14/07/25	17/07/25

Procedural blanks: Glass was used as blank sample.

Client: Plastitalia S.p.A  
 Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
 Sample-no 122500592-0004



**Basic requirements**

Table 3 Results of the analysis of the migration water (raw data) and the calculated migration rates or results of the periods at 23°C

Organoleptic Parameter	Raw data						Calculated migration rate or result				
	1 <sup>st</sup> migration period		2 <sup>nd</sup> migration period		3 <sup>rd</sup> migration period		Unit	migration period			Unit
	blank water	migration water	blank water	migration water	blank water	migration water		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	
Threshold Odour Number (TON) A/B	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	TON	<2	<2	<2	TON
Turbidity A/B	<0,1/<0,1	<0,1/<0,1	<0,1/<0,1	<0,1/<0,1	<0,1/<0,1	<0,1/<0,1	FNU	<0,1	<0,1	<0,1	FNU
Colour (410 nm) A/B	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	mg/l Pt	<2	<2	<2	mg/l Pt
Foaming A/B	nsa/nsa	nsa/nsa	nsa/nsa	nsa/nsa	nsa/nsa	nsa/nsa	-	nsa	nsa	nsa	-

Client: Plastitalia S.p.A  
 Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
 Sample-no 122500592-0004



Table 3a: Specialized table of test results (toxicological) at 23°C

Parameter/ Parameter group	TOC					
	1 <sup>st</sup> migration period		2 <sup>nd</sup> migration period		3 <sup>rd</sup> migration period	
$a_n^T$	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	0,29 mg/l	0,41 mg/l
$\bar{a}_n^T$	<0,20 mg/l		<0,20 mg/l		0,35 mg/l	
$b_n^T$	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l
$\bar{b}_n^T$	<0,20 mg/l		<0,20 mg/l		<0,20 mg/l	
$\bar{c}_n^T = \bar{a}_n^T \cdot \bar{b}_n^T$	<0,20 mg/l		<0,20 mg/l		0,25 mg/l	
$CTap_n^T$	<0,027 mg/l		<0,027 mg/l		0,033 mg/l	

Conversion factor = 2

Table 3a: Continuation at 23°C

Parameter/ Parameter group	TOC					
	5 <sup>th</sup> migration period		7 <sup>th</sup> migration period		9 <sup>th</sup> migration period	
$a_n^T$	0,54 mg/l	0,60 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l
$\bar{a}_n^T$	0,57 mg/l		<0,20 mg/l		<0,20 mg/l	
$b_n^T$	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l	<0,20 mg/l
$\bar{b}_n^T$	<0,20 mg/l		<0,20 mg/l		<0,20 mg/l	
$\bar{c}_n^T = \bar{a}_n^T \cdot \bar{b}_n^T$	0,47 mg/l		<0,20 mg/l		<0,20 mg/l	
$CTap_n^T$	0,063 mg/l		<0,027 mg/l		<0,027 mg/l	

Conversion factor = 2

Client: Plastitalia S.p.A  
Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
Sample-no 122500592-0004



**Material specific requirements for individual substances acc. point 5.4 of the KTW-BWGL of the UBA (7 March 2022)**

There are material specific individual substance requirements, but these were not checked as part of the ongoing monitoring.

**Formulation specific requirements for individual substances acc. point 5.5 of the KTW-BWGL of the UBA (7 March 2022)**

There are no formulation specific requirements.

Client: Plastitalia S.p.A  
 Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
 Sample-no 122500592-0004



Table 4 Information concerning the methods of analysis applied at the migration water

Parameter	Pretreatment of the migration water	Migration test	Method of analysis	Detection limit	Intra laboratory reproducibility (%)	Location	Accreditation
Threshold Odour Number (TON)	dilution	DIN EN 1420: 2016-05	DIN EN 1622: 2006-10	2 TON	n.a.	12	yes
Turbidity	no	DIN EN 1420: 2016-05	DIN EN ISO 7027-1 (C21): 2016-11	0,1 FNU	0,54 (concentration level: 20 FNU)	12	yes
Colour (410 nm)	no	DIN EN 1420: 2016-05	DIN EN ISO 7887 (C 1): 2012-04	2 mg/l Pt	3,1 (concentration level: 11 mg/l Pt)	12	yes
Foaming	no	DIN EN 1420: 2016-05	visually	-	n.a.	12	yes
Total Organic Carbon (TOC)	acidify	DIN EN 12873-1: 2014-09	DIN EN 1484: 2019-04	0,2 mg/l	2,7 (concentration level: 2,2 mg/l)	12	yes

n.a. not applicable

**Locations of Analysis:**

12 Rostock

Client: Plastitalia S.p.A  
Certificate no. <sup>a)</sup>: KIWA-23-DW-10361-1  
Sample-no 122500592-0004



**Annex 2: Explanation of the terms**

$a_n^T$	measured concentration of a substance in migration water, mg/l or $\mu\text{g/l}$
$b_n^T$	measured concentration of a substance in blank water, mg/l or $\mu\text{g/l}$
$\bar{c}_n^T$	measured concentration of a substance, mg/l or $\mu\text{g/l}$
$CTap_n^T$	Maximum expected concentration of a migrating substance on the tap, mg/l
n	number of the migration period

- End of test report -