



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic
TESTING LABORATORY - TESTING DIVISION

Issues

ATTEST No. 472118563-01

on samples:

Rubber plate E628 black colour (from EPDM)

client:

**Semperit Technische Produkte GmbH
Triester Bundesstraße 26, 2632 Wimpassing, Austria
VAT reg. No.: ATU14234201**

Values obtained and the assessment of the technical parameters:

Evaluated technical parameters of the leaching tests meet hygienic requirements of the article 3 paragraph 2 of the Decree of the Czech Health Ministry No. 409/2005 Coll. *Hygienic requirements for articles intended to come into contact with water and for the water treatment, as amended by the Decree of the Czech Health Ministry No. 446/2021 Coll., for articles intended into the long time contact with drinking water.*

Evaluated sample does not negatively influence the sensorial properties of the drinking water.

This Attest was issued on the basis of following documents: ALTR No. 472118563-02 from May 26, 2025, ALTR No. 472118563-01 from March 14, 2025 and ALTR No. 47211532-01 from April 27, 2022, issued by Institut pro testování a certifikaci, a.s. Zlín.

Issued on: May 26, 2025

Valid till: May 31, 2028



Dipl. Ing. Jiří Samsonek, Ph.D.
Head of the testing laboratory

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Fig. 1: supplied sample No. 472118563/01 for testing

Evaluation of heavy metals in the mass

(the test results were taken from the test report No. 472118563-01)

Parameter	Unit	Result of measurement ¹⁾	Uncertainty
Pb - lead	mg/kg	< 20	-
Cd - cadmium	mg/kg	< 20	-
Ba - barium	mg/kg	< 150	-
Se - selenium	mg/kg	< 20	-
Hg - mercury	mg/kg	< 20	-
Sb - antimony	mg/kg	< 50	-
As - arsenic	mg/kg	< 20	-
Cr - chromium	mg/kg	< 20	-
Ni - nickel	mg/kg	< 20	-
V - vanadium	mg/kg	< 20	-
Sn - tin	mg/kg	< 50	-
Cu - copper	mg/kg	< 20	-
Fe - ferrum	mg/kg	178	18
Mn - manganese	mg/kg	< 20	-
Zn - zinc	mg/kg	> 300	-

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ATTEST

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on sample:

Rubber plate E628 black colour (from EPDM)

Notes to the table:

- 1) symbol „<” means less than limit of quantification (LOQ) of the analytical method
symbol „>” means more than the highest calibration standard
- 2) 10 rel. % from measured value

Evaluated parameters of the leachate prepared according to the annex No. 1 of the Decree of the Health Ministry No. 409/2005 Coll.

Evaluation of the 1st leachate into the testing water after 72 hours

Parameter	Unit	Parallel leachate		K _{72;1} ¹⁾	Uncerta- inty ²⁾	K _{0;1} ³⁾
		18563/01-A	18563/01-B			
The test results were taken from the test report No. 472118563-01						
Zn	mg/l	0,025	0,023	0,024	0,005	< 0,010
Fe	mg/l	< 0,01	< 0,01	< 0,01	-	< 0,01
Sum of PAAs ⁴⁾ (LOD = 0,002 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected
Sum of PAAs ⁴⁾ (LOD = 0,005 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected
Aniline, CAS No. 62-53-3	mg/l	0,0035	0,0035	0,0035	0,0004	< 0,005 ⁹⁾
PAH ⁵⁾	µg/l	< 0,001	< 0,001	< 0,001	-	< 0,001
Benzo(a)pyrene	µg/l	< 0,0004	< 0,0004	< 0,0004	-	< 0,0004
Parameter	Unit	Parallel leachate		K _{72;1} ¹⁾	Uncerta- inty ²⁾	K _{0;1} ³⁾
		18563/02-A	18563/02-B			
The test results were taken from the test report No. 472118563-02						
TOC ⁶⁾	mg/l	1,36	1,35	1,36	0,09	< 0,60

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ATTEST

No. 472118563-01

on sample:

Rubber plate E628 black colour (from EPDM)

Evaluation of the 1st leachate into the testing water after 72 hours – continuation

Parameter	Unit	Parallel leachate		K _{72;1} ¹⁾	Uncertainty ²⁾	K _{0;1} ³⁾
		15132/01-A	15132/01-B			
The test results were taken from the test report No. 472115132-01						
Colour	mgPt/l	< 5	< 5	< 5	-	< 5
Turbidity (nephelometry)	ZF _n	< 0,5	< 0,5	< 0,5	-	< 0,5
pH	-	6,1	6,2	6,2	0,2	5,8
CHSK _{Mn} ⁷⁾	mg/l	0,27	0,36	0,32	0,10	-
Pb	µg/l	< 0,50	< 0,50	< 0,50	-	< 0,50
Cd	µg/l	< 0,20	< 0,20	< 0,20	-	< 0,20
Ba	mg/l	< 0,010	< 0,010	< 0,010	-	< 0,010
Phenols	mg/l	< 0,005	< 0,005	< 0,005	-	< 0,005

Evaluation of the 2nd leachate into the testing water after 72 hours

Parameter	Unit	Parallel leachate		K _{72;2} ¹⁾	Uncerta- inty ²⁾	K _{0;2} ³⁾
		18563/01-A	18563/01-B			
The test results were taken from the test report No. 472118563-01						
Zn	mg/l	0,014	0,012	0,013	0,003	< 0,010
Fe	mg/l	< 0,01	< 0,01	< 0,01	-	< 0,01
Sum of PAAs ⁴⁾ (LOD = 0,002 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected
Sum of PAAs ⁴⁾ (LOD = 0,005 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected
PAH ⁵⁾	µg/l	< 0,001	< 0,001	< 0,001	-	< 0,001
Benzo(a)pyrene	µg/l	< 0,0004	< 0,0004	< 0,0004	-	< 0,0004

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Evaluation of the 2nd leachate into the testing water after 72 hours - continuation

Parameter	Unit	Parallel leachate		K _{72;2} ¹⁾	Uncertainty ²⁾	K _{0;2} ³⁾
		18563/02-A	18563/02-B			
The test results were taken from the test report No. 472118563-02						
TOC ⁶⁾	mg/l	0,86	0,88	0,87	0,06	< 0,60
Parameter	Unit	Parallel leachate		K _{72;2} ¹⁾	Uncertainty ²⁾	K _{0;2} ³⁾
		15132/01-A	15132/01-B			
The test results were taken from the test report No. 472115132-01						
Colour	mgPt/l	< 5	< 5	< 5	-	< 5
Turbidity (nephelometry)	ZF _n	< 0,5	< 0,5	< 0,5	-	< 0,5
pH	-	6,0	6,0	6,0	0,2	5,7
CHSK _{Mn} ⁷⁾	mg/l	0,24	0,30	0,27	0,07	-
Pb	µg/l	< 0,50	< 0,50	< 0,50	-	< 0,50
Cd	µg/l	< 0,20	< 0,20	< 0,20	-	< 0,20
Ba	mg/l	< 0,010	< 0,010	< 0,010	-	< 0,010
Phenols	mg/l	< 0,005	< 0,005	< 0,005	-	< 0,005

Evaluation of the 3rd leachate into the testing water after 72 hours

Parameter	Unit	Parallel leachate		K _{72;3} ¹⁾	Uncertainty ²⁾	K _{0;3} ³⁾
		18563/01-A	18563/01-B			
The test results were taken from the test report No. 472118563-01						
Zn	mg/l	< 0,010	< 0,010	< 0,010	-	< 0,010
Fe	mg/l	< 0,01	< 0,01	< 0,01	-	< 0,01
Sum of PAAs ⁴⁾ (LOD = 0,002 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected
Sum of PAAs ⁴⁾ (LOD = 0,005 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	-	no PAA detected

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ATTEST

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on sample:

Rubber plate E628 black colour (from EPDM)

Evaluation of the 3rd leachate into the testing water after 72 hours - continuation

Parameter	Unit	Parallel leachate		K _{72;3} ¹⁾	Uncertainty ²⁾	K _{0;3} ³⁾
		18563/01-A	18563/01-B			
The test results were taken from the test report No. 472118563-01						
PAH ⁵⁾	µg/l	< 0,001	< 0,001	< 0,001	-	< 0,001
Benzo(a)pyrene	µg/l	< 0,0004	< 0,0004	< 0,0004	-	< 0,0004
Flavour	TFN ⁸⁾	< 1	< 1	< 1	-	< 1
Odour	TON ⁸⁾	< 1	< 1	< 1	-	< 1
Parameter	Unit	Parallel leachate		K _{72;3} ¹⁾	Uncertainty ²⁾	K _{0;3} ³⁾
		18563/02-A	18563/02-B			
The test results were taken from the test report No. 472118563-02						
TOC ⁶⁾	mg/l	0,79	0,79	0,79	0,05	< 0,60
Parameter	Unit	Parallel leachate		K _{72;3} ¹⁾	Uncertainty ²⁾	K _{0;3} ³⁾
		15132/01-A	15132/01-B			
The test results were taken from the test report No. 472115132-01						
Colour	mgPt/l	< 5	< 5	< 5	-	< 5
Turbidity (nephelometry)	ZF _n	< 0,5	< 0,5	< 0,5	-	< 0,5
pH	-	5,9	5,9	5,9	0,2	5,7
CHSK _{Mn} ⁷⁾	mg/l	0,24	0,21	0,23	0,04	-
Pb	µg/l	< 0,50	< 0,50	< 0,50	-	< 0,50
Cd	µg/l	< 0,20	< 0,20	< 0,20	-	< 0,20
Ba	mg/l	< 0,010	< 0,010	< 0,010	-	< 0,010
Phenols	mg/l	< 0,005	< 0,005	< 0,005	-	< 0,005

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No. 472118563-01

on sample:

Rubber plate E628 black colour (from EPDM)

Notes to the tables:

- 1) $K_{72;n}$ is the concentration of the analyte after 72 hours of leaching, expressed as an average value from two tested samples of parallel leachates after the subtraction of the blank value, the blank values are not subtracted in case of: odour, flavour, pH and TOC
- 2) the reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%
- 3) $K_{0;n}$ is the concentration of the analyte after 72 hours of leaching in the blank, expressed as an average value from two tested parallels leachates
- 4) PAA = primary aromatic amines;
these PAAs were screened by LC-MS/MS method: CAS No. 92-67-1, CAS No. 92-87-5, CAS No. 95-69-2, CAS No. 91-59-8, CAS No. 97-56-3, CAS No. 99-55-8, CAS No. 106-47-8, CAS No. 615-05-4, CAS No. 101-77-9, CAS No. 91-94-1, CAS No. 119-90-4, CAS No. 119-93-7, CAS No. 838-88-0, CAS No. 120-71-8, CAS No. 101-14-4, CAS No. 101-80-4, CAS No. 139-65-1, CAS No. 95-53-4, CAS No. 95-80-7, CAS No. 137-17-7, CAS No. 90-04-0, CAS No. 60-09-3, CAS No. 108-45-2, CAS No. 80-08-0, CAS No. 88-68-6, CAS No. 106246-33-7 with limit of detection (LOD) of individual PAA = 0,002 mg/l
and detection of presence of selected other PAAs: CAS No. 95-68-1, CAS No. 87-62-7, CAS No. 2243-62-1, CAS No. 62-53-3, CAS No. 95-51-2, CAS No. 108-42-9, CAS No. 106-49-0, CAS No. 106-50-3, CAS No. 823-40-5, CAS No. 121-69-7, CAS No. 6582-52-1, CAS No. 1208-52-2, CAS No. 6358-64-1, CAS No. 95-82-9, CAS No. 94-70-2, CAS No. 2835-68-9, CAS No. 81-16-3, CAS No. 88-44-8, CAS No. 49564-57-0, CAS No. 95-23-8, CAS No. 132-32-1, CAS No. 95-54-5, CAS No. 67014-36-2, CAS No. 156-43-4, CAS No. 90-41-5 with limit of detection (LOD) of individual PAA = 0,005 mg/l
- 5) PAH = Polycyclic aromatic hydrocarbon, sum of benzo(b)fluorantene, benzo(k)fluorantene, benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene
- 6) TOC = total organic carbon
- 7) $CHSK_{Mn}$ = Permanganate Index
- 8) TFN = threshold flavour number; TON = threshold odour number
- 9) symbol „<“ means less than limit of detection (LOD) of the analytical method
symbol „<“ means less than limit of quantification (LOQ) of the analytical method



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ATTEST

No. 472118563-01

on sample:

Rubber plate E628 black colour (from EPDM)

Summary results of evaluation 1st – 3rd leachate into the testing water at 23 °C

Parameter	Unit	K _{72;1} ¹⁾	K _{72;2} ¹⁾	K _{72;3} ¹⁾	Limit ²⁾
The test results were taken from the test report No. 472118563-01					
Zn	mg/l	0,024	0,013	< 0,010	max. 0,30 ⁹⁾
Fe	mg/l	< 0,01	< 0,01	< 0,01	max. 0,020
Sum of PAAs ³⁾ (LOD = 0,002 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	max. 0,01 ⁹⁾
Sum of PAAs ³⁾ (LOD = 0,005 mg/l)	mg/l	no PAA detected	no PAA detected	no PAA detected	
Aniline, CAS No. 62-53-3	mg/l	0,0035	< 0,005 ⁸⁾	< 0,005 ⁸⁾	
PAH ⁴⁾	µg/l	< 0,001	< 0,001	< 0,001	max. 0,010
Benzo(a)pyrene	µg/l	< 0,0004	< 0,0004	< 0,0004	max. 0,0010
Flavour	TFN ⁷⁾	-	-	< 1	acceptable (max. 2)
Odour	TON ⁷⁾	-	-	< 1	max. 2
The test results were taken from the test report No. 472118563-02					
TOC ⁵⁾	mg/l	1,36	0,87	0,79	max. 1,0
The test results were taken from the test report No. 472115132-01					
Colour	mgPt/l	< 5	< 5	< 5	max. 20
Turbidity (nephelometry)	ZF _n	< 0,5	< 0,5	< 0,5	max. 5
pH	-	6,2	6,0	5,9	-
CHSK _{Mn} ⁶⁾	mg/l	0,32	0,27	0,23	max. 0,90
Pb	µg/l	< 0,50	< 0,50	< 0,50	max. 1,0
Cd	µg/l	< 0,20	< 0,20	< 0,20	max. 0,50
Ba	mg/l	< 0,010	< 0,010	< 0,010	max. 0,07 ⁹⁾
Phenols	mg/l	< 0,005	< 0,005	< 0,005	max. 0,005 ⁹⁾

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ATTEST

No. 472118563-01

on sample:

Rubber plate E628 black colour (from EPDM)

Notes to the table:

- 1) $K_{72;n}$ is the concentration of the analyte after 72 hours of leaching, expressed as an average value from the dual samples of parallel leachates after the subtraction of the blank value, the blank values are not subtracted in case of: odour, flavour, pH and TOC; symbol „<“ means less than limit of quantification (LOQ) of the analytical method
- 2) 10 % of the hygienic limit for drinking water according to the Czech Ministry of Health Decree No. 252/2004 Coll., as amended, annex 1; according to the article 3 paragraph 2 of the Decree of the Czech Health Ministry No. 409/2005 Coll., as amended, the limit valid for TOC is 20 % of the hygienic limit, for CHSK_{Mn} is 30 % of the hygienic limit, for sensorial properties are valid the hygienic limits; limits are valid for parameter values of the third leachate K_{72;3}
- 3) PAA = primary aromatic amines; these PAAs were screened by LC-MS/MS method: CAS No. 92-67-1, CAS No. 92-87-5, CAS No. 95-69-2, CAS No. 91-59-8, CAS No. 97-56-3, CAS No. 99-55-8, CAS No. 106-47-8, CAS No. 615-05-4, CAS No. 101-77-9, CAS No. 91-94-1, CAS No. 119-90-4, CAS No. 119-93-7, CAS No. 838-88-0, CAS No. 120-71-8, CAS No. 101-14-4, CAS No. 101-80-4, CAS No. 139-65-1, CAS No. 95-53-4, CAS No. 95-80-7, CAS No. 137-17-7, CAS No. 90-04-0, CAS No. 60-09-3, CAS No. 108-45-2, CAS No. 80-08-0, CAS No. 88-68-6, CAS No. 106246-33-7 with limit of detection (LOD) of individual PAA = 0,002 mg/l and detection of presence of selected other PAAs: CAS No. 95-68-1, CAS No. 87-62-7, CAS No. 2243-62-1, CAS No. 62-53-3, CAS No. 95-51-2, CAS No. 108-42-9, CAS No. 106-49-0, CAS No. 106-50-3, CAS No. 823-40-5, CAS No. 121-69-7, CAS No. 6582-52-1, CAS No. 1208-52-2, CAS No. 6358-64-1, CAS No. 95-82-9, CAS No. 94-70-2, CAS No. 2835-68-9, CAS No. 81-16-3, CAS No. 88-44-8, CAS No. 49564-57-0, CAS No. 95-23-8, CAS No. 132-32-1, CAS No. 95-54-5, CAS No. 67014-36-2, CAS No. 156-43-4, CAS No. 90-41-5 with limit of detection (LOD) of individual PAA = 0,005 mg/l
- 4) PAH = Polycyclic aromatic hydrocarbon, sum of benzo(b)fluorantene, benzo(k)fluorantene, benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene
- 5) TOC = total organic carbon
- 6) CHSK_{Mn} = Permanganate Index Method
- 7) TFN = threshold flavour number; TON = threshold odour number
- 8) symbol „<“ means less than limit of detection (LOD) of the analytical method
- 9) 10 % of the hygienic limit for drinking water according to the Czech Ministry of Health Decree No. 409/2005 Sb., as amended; for PAA are valid the hygienic limit; limits are valid for parameter values of the third leachate K_{72;3}



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třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic
Testing Laboratory – D2

ATTEST No. 472118563-01

Sample identification:

Table I: Samples description and identification

ITC's identification number	Sample identification by the client	Description of submitted sample
472118563/01	Rubber plate E628 black colour (from EPDM) - sample received on February 12, 2025	black rubber plates of dimension (10x10) cm – see Fig. 1
472118563/02	Rubber plate E628 black colour (from EPDM) - sample received on May 5, 2025	

Sampling method used:

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling. The results apply to the sample received.

Work request:

The client requested evaluation of selected hygienic parameters of the sample according to the Decree of Czech Health Ministry No. 409/2005 Coll. *Hygienic requirements for articles intended to come into contact with water and for the water treatment*, as amended by the Decree of the Czech Health Ministry No. 446/2021 Coll., in accordance with the law No. 258/2000 Coll. on Public Health Protection, as amended, for contact with drinking water.

The relevant parameters given by the Czech Ministry of Health Decree No. 409/2005 Coll., as amended, for the material were tested within of Attest No. 472115132-01 prolongation.

Opinions and interpretations:

Evaluation of fulfilling of the requirements of the Decree of the Health Ministry No. 409/2005 Coll. for articles intended into the short-term contact with drinking water:

- In the supplied samples heavy metals content was determined by XRF spectroscopy - see table on the page 2 of this attest.
- The supplied sample is intended into the contact with drinking water.
The article intended into the direct long time contact with drinking water shall meet requirements of the article 3 paragraph 2 of the Decree of the Czech Health Ministry No. 409/2005 Coll., as amended - shall not exceed 10 % of the hygienic limit set for drinking water by to the Health Ministry Decree No. 252/2004 Coll. According to the article 3 paragraph 2 of the Decree of the Czech Health Ministry No. 409/2005 Coll., as amended, the limit valid for TOC is 20 % of the hygienic limit, for CHSK_{Mn} is 30 % of the hygienic limit, for sensorial properties are valid the hygienic limits.
Three subsequent 72-hours leachates into the testing water (deionised water of temperature 23 °C according to the conditions from Annex No. 1 of the Health Ministry Decree No. 409/2005 Coll., as amended) were prepared from the supplied samples in years 2022 and 2025.
The test results for parallel leachates, the average values subtracted by the blank values and blank values are listed in the tables on pages 3 - 6 of this attest. Summary results of evaluation 1st – 3rd leachate into the testing water at 23 °C, together with limit values are listed in the table on the page 8 of this attest.

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The tested parameters from the third leachate meet the requirements of the article 3 paragraph 2 of the Health Ministry Decree No. 409/2005 Coll., as amended by the Decree of the Czech Health Ministry No. 446/2021 Coll., on the products intended into the direct long time contact with drinking water.

The supplied samples doesn't negatively influence the sensorial properties of the water.

Evaluated by:

MUDr. Beata Janoušková, on May 26, 2025.

Conclusion:

The comparison of the obtained values of the samples with the requirements of the Health Ministry Decree No. 409/2005 Coll., as amended and the evaluation of the conformity with this regulation are listed on the page 1 of this Attest.

Dipl. Ing. Daniel Vít

Head of the laboratory of analytical chemistry and microbiology

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