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Aschaffenburg, 13 October 2022

From: Be-db
Authorized by: Behrendt

REPORT

Order No.: 13671/28 **Page 1 of 4 pages**

Client: profine GmbH
Zweibrücker Straße 200
66954 Pirmasens
Germany

Date of order: 7 July 2022

Receipt of sample material: 2 August 2022

Origin of sample material: From the client

Purpose: Analysis of two panels in accordance with DIN EN 71-3

(Dr. Derra)
Managing Director

(Behrendt)
Officially certified
and authorized food
chemist

The present report exclusively refers to the samples mentioned. It meets the requirements of the DIN EN ISO/IEC 17025:2018 for simplified test reports. Additional information and statistical data on the results are available upon request.

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-14160-01-01
D-PL-14160-01-02

Sample Material

For analysis the following sample material was in hand:

Sample 1:	KömaDUR WA-FF; Farbe 654; Plattendicke 2,5 mm; Auftrags-Nr. 72449781
Sample 2:	KömaDUR WA; Farbe 654; Plattendicke 2,5 mm; Auftrags-Nr. 72464568

Carrying out of the Tests

Examination period: 10 August 2022 to 10 October 2022

1. Determination of the Migration of Certain Elements

The determination was performed according to DIN EN 71-3:2021-06.

A. Standard Elements *

The determination was performed by means of ICP-OES in a hydrochloric acid extract.

Result in mg/kg:

Sample 1 + 2:

					Limit value (category III)	
Aluminium	(Al):	not quantifiable	<	1,000	28,130	
Antimony	(Sb):	not quantifiable	<	20	560	
Arsenic	(As):	not quantifiable	<	5	47	
Barium	(Ba):	not quantifiable	<	100	18,750	
Boron	(B):	not quantifiable	<	100	15,000	
Cadmium	(Cd):	not quantifiable	<	5	17	
Cobalt	(Co):	not quantifiable	<	20	130	
Chromium	(Cr):	not quantifiable	<	20	460	- Cr(III)
Copper	(Cu)	not quantifiable	<	20	7,700	
Mercury	(Hg):	not quantifiable	<	5	94	
Manganese	(Mn):	not quantifiable	<	100	15,000	
Nickel	(Ni):	not quantifiable	<	100	930	
Lead	(Pb):	not quantifiable	<	5	23	
Selenium	(Se):	not quantifiable	<	20	460	
Tin	(Sn):	not quantifiable	<	100	180,000	
Strontium	(Sr)	not quantifiable	<	1,000	56,000	
Zinc	(Zn):	not quantifiable	<	100	46,000	

Comment:

The overall chromium content including Cr(VI) is recorded under the disintegration conditions.

B. Chromium(VI) *

The determination was performed according to SOP 162.200 by means of ion chromatography in a hydrochloric acid extract.

Result:

Sample 1 + 2: not quantifiable < 0.05 mg/kg

Limit value (Category III): 0.053 mg/kg

C. Organo Tin

The determination was performed in cooperation with the Ostthüringische Materialprüfgesellschaft für Textil und Kunststoffe mbH (Registration no. D-PL-11118-01-01) by means of GCMS. The following organo tin compounds were considered:

Monobutyltin	Monooctyltin	Tricyclohexyltin
Dibutyltin	Dioctyltin	Methyltin
Tributyltin	Diphenyltin	Di-n-propyltin
Tetrabutyltin	Triphenyltin	

Limit of quantitation: 0.6 mg/kg each; sum organo tin compounds: 12 mg/kg

Limit value (Category III): 12 mg/kg in total

Result:

Sample 1 + 2:

None of the above-listed compounds were quantifiable.

2. Determination of the Heavy Metals in Packagings *

The determination was performed after microwave disintegration by means of AAS or ICP-OES. It applies to those metals which are restricted according to the European Packaging Directive 94/62/EC as well as to the US American CONEG legislation.

Result:

Sample 1:

Lead	(Pb):	not quantifiable	<	5	mg/kg
Cadmium	(Cd):	not quantifiable	<	0.5	mg/kg
Mercury	(Hg):	not quantifiable	<	0.25	mg/kg
Chromium	(Cr):			1.2	mg/kg

Sample 2:

Lead	(Pb):	not quantifiable	<	5	mg/kg
Cadmium	(Cd):	not quantifiable	<	0.5	mg/kg
Mercury	(Hg):	not quantifiable	<	0.25	mg/kg
Chromium	(Cr):	not quantifiable	<	1	mg/kg

Limit value 100 mg/kg (sum of Pb, Cd, Hg and Cr(VI)).

Comment:

Under the disintegration conditions the total content of chromium including chromium(VI) is detected.

The accreditation applies to the methods marked with * in the test report (Register no. D-PL-14160-01-01 and D-PL-14160-01-02).

End of report