

Aschaffenburg, 30 June 2020

From: Dr. Dr-hu
Authorized by: Burkardt

REPORT

Order No.: 19052/1 **Page 1 of 3 pages**

Client: Unilin bv
Ingelmunstersteenweg 229
8780 Oostrozebeke
Belgium

Date of order: 2 June 2020

Receipt of sample material: 3 June 2020

Origin of sample material: From the client

Purpose: Analysis of laminate plates for the compliance with the demands on food contact materials



(Dr. Derra)
Managing Director



(Burkardt)
Officially certified
and authorized food
chemist

The present report refers exclusively to the samples as laid out therein. Information and statistical data on the results can be obtained on request.

Sample Material

For analysis the following sample material was in hand:

Sample 1: Melamine decorative panels
Sample 2: Compact high-pressure laminate panels
Sample 3: High-pressure laminate panels

Carrying out of the Tests

Examination period: 5 June 2020 to 30 June 2020

1. Determination of the Overall Migration *

The determination was performed according to the series of standards EN 1186:2002-07 and the EN 13130-1:2004-08. If required, the CEN/TS 14234:2003-01 as well as CEN/TS 14235:2003-01 were considered.

The test simulants as well as the contact conditions were chosen in accordance with the requirements of annex III and V of Regulation (EU) No 10/2011.

If not stated differently, the results are given as average values of determinations in duplicate.

Conditions: 24 hours at 40 °C

Test simulants: acetic acid 3 % (w/w) (food simulant B)
ethanol 10 % (v/v) (food simulant A)
ethanol 95 % (v/v) (instead of food simulant D2)

Testing procedure: one-sided contact (coated side)

Result:

Sample 1:	acetic acid 3 %:	not quantifiable	<	2	mg/dm ²
	ethanol 10 %:	not quantifiable	<	2	mg/dm ²
	ethanol 95 %:	not quantifiable	<	2	mg/dm ²
Sample 2:	acetic acid 3 %:	not quantifiable	<	2	mg/dm ²
	ethanol 10 %:	not quantifiable	<	2	mg/dm ²
	ethanol 95 %:	not quantifiable	<	2	mg/dm ²
Sample 3:	acetic acid 3 %:	not quantifiable	<	2	mg/dm ²
	ethanol 10 %:	not quantifiable	<	2	mg/dm ²
	ethanol 95 %:	not quantifiable	<	2	mg/dm ²
	Limit value:			10	mg/dm ²

2. Determination of the Specific Migration

The determination was performed in duplicate in the same food simulants after a storage period under the conditions indicated above.

2.1. Melamine [108-78-1] *

The determination was performed according to CEN/TS 13130-27:2005-5 by means of HPLC-UV in the simulant ethanol 95 %.

Result:

Sample1, 1 st migrate:	not quantifiable	< 0.01	mg/dm ²
Sample1, 3 rd migrate:	not quantifiable	< 0.01	mg/dm ²
Sample2, 1 st migrate:	not quantifiable	< 0.01	mg/dm ²
Sample2, 3 rd migrate:	not quantifiable	< 0.01	mg/dm ²
Sample3, 1 st migrate:	not quantifiable	< 0.01	mg/dm ²
Sample3, 3 rd migrate:	not quantifiable	< 0.01	mg/dm ²

2.2. Formaldehyde [50-00-0] *

The determination was performed photometrically according to CEN/TS 13130-23:2005-05 according to the acetylacetone method in the simulants acetic acid 3 % and ethanol 10 %.

Result:

Acetic acid 3 %, 1st migrate:

Sample 1:	1	mg/dm ²
Sample 2:	0.2	mg/dm ²
Sample 3:	0.4	mg/dm ²

Ethanol 10 %, 1st migrate:

Sample 1:	0.2	mg/dm ²
Sample 2:	0.1	mg/dm ²
Sample 3:	0.2	mg/dm ²

Ethanol 10 %, 3rd migrate:

Sample 1:	0.4	mg/dm ²
Sample 2:	0.1	mg/dm ²
Sample 3:	0.2	mg/dm ²

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