

Test report

Determination of the overall migration from impregnated wood plates

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Customer:	Osmo Holz und Color GmbH & Co. KG Lütkenbecker Weg 12 48155 Münster
IVV Order no.:	PA/4142/18
Date of order:	19.02.2018
Sample receipt:	21.02.2018
Testing period:	21.02. –28.02.2018
Date of report:	01.03.2018
Sample storage:	Remaining test material will be stored in the institute for six months.
Total pages of the report:	3

The results relate only to the investigated samples.

1 Sample material

The customer provided the following sample material:

Circular wooden plates with a diameter of approx. 10 cm and a thickness of approx. 2 mm impregnated with Osmo POLYX-Oil

The oil is used for the impregnation of kitchen worktops and table tops. Thus, it can be in direct contact with all types of food, usually in short term contact.

2 Methods

2.1 Determination of the overall migration into aqueous food simulants

Method: European Standard EN 1186-5
Simulant: 3 % acetic acid
Time and temperature: 24 hours / 40 °C
Test conditions: single sided contact in cells
Contact area / volume: 0.44 dm² / 50 ml

2.2 Determination of the overall migration into isooctane as alternative for the determination of the overall migration into olive oil

Method: European Standard EN 1186-15
Simulant: isooctane
Time and temperature: 24 hours / 40 °C
Test conditions: single sided contact in cells
Contact area / volume: 0.44 dm² / 50 ml

3 Results

The results of the overall migration are given in mg/dm² contact area, rounded to one decimal. The mean value was formed of three determinations (n = 3). The single values are given in italics.

Simulant	Area related migration [mg/dm ²]
3 % Acetic acid	6.3 (7.0 / 5.8 / 6.1)
Isooctane	6.8 (7.3 / 6.7 / 6.4)

4 Food regulatory assessment

The overall migration limit is set at 10 mg/dm² contact surface according to the European Plastics Regulation (EU) No 10/2011 (lastly amended by Regulation (EU) No 2018/213).

The analytical tolerance of the method is ± 2 mg/dm² for acetic acid and isooctane.

The investigated impregnated wood material is not within the scope of the Plastics Regulation (EU) No 10/2011. The inertness was assessed based on the overall migration limit according to the plastics regulation. The chosen test conditions are not in agreement with the official test conditions of Table 3 Annex V Chapter 3 but rather correspond to the actual conditions of use as kitchen worktops and table tops.

The investigated sample is in compliance with the overall migration limit in contact with all types of foods for short term contact (up to 24 hours) at room temperature.

5 Signature

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Freising, 01.03.2018

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