

test report no.  
**8988/51/2019**

date  
Czarna Woda, 25.11.2019

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**OŚRODEK BADAWCZO-ROZWOJOWY  
PRZEMYSŁU PŁYT DREWNOPOCHODNYCH sp. z o.o.**

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Research & Development Centre of Wood-Based Panels  
Testing Laboratory  
Laboratory for Testing Products



AB 244



## TEST REPORT

**Subject:** Formaldehyde emission

**Test method:**  
PN-EN 717-1:2006

**Customer:**  
Kronospan Mielec Sp. z o.o.  
ul. Wojska Polskiego 3  
39-300 Mielec

**Basis of testing:**  
Order no 236041 from 13.09.2019

**Date and location of testing:**  
Laboratorium Badania Wyrobów OBRPPD, 20.11 ÷ 25.11.2019

Tests results presented in Table 1, refer only to the examined samples.  
The test report cannot be copied in parts but only in entirety.  
The test material was used up.

### 1. Information from customer

Type of the board:	Laminated one side, MDF E-LE, FSC Mix Credit; D-0110 SM
Thickness:	16 mm, sample representative for range 6-25 mm
Date of production:	10.10.2019
Batch no:	10.10.2019
Sampling:	16.10.2019
Material name:	Laminated one side, MDF E-LE, FSC Mix Credit; D-0110 SM
Producer:	Kronospan Mielec Sp. z o.o.

**2. Sample identification**  
nr 19864

### 3. Sample delivery

Delivered by: courier  
Date of sample delivery: 18.10.2019  
Service during the period between delivery to the laboratory and the start of the testing:  
- samples were kept wrapped in PE foil until the beginning of the test



#### 4. Test method (conditions and analytic method)

The formaldehyde emission testing was performed according to:

- PN-EN 717-1:2006 Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method.

Testing conditions:

- chamber volume: 0,225 m<sup>3</sup>;
- temperature: (23 ± 0,5)°C;
- relative humidity: (45 ± 3)%;
- loading ratio: (1,0 ± 0,02) m<sup>2</sup>/m<sup>3</sup>;
- air exchange rate: (1,0 ± 0,05)/h;
- air velocity at the surface of the specimen: (0,1 to 0,3) m/s
- formaldehyde concentration in make-up air to test chamber: ≤ 0,006 mg<sub>HCHO</sub>/m<sup>3</sup>
- ratio of the length of open narrow planes (unsealed) *U* to surface *A* is *U/A* = 1,5 m/m<sup>2</sup>
- formaldehyde concentration was determined photometrically according to the acetylacetone method.

#### 5. Results of measurements

date	exposure time [h]	HCHO concentration in chamber [mg/m <sup>3</sup> ]	date	exposure time [h]	HCHO concentration in chamber [mg/m <sup>3</sup> ]
21.11.2019	17	0,037	23.11.2019	65	0,040
	20	0,036		68	0,043
22.11.2019	41	0,037	25.11.2019	113	0,042
	44	0,039		116	0,040

#### 6. Emission in steady state

Value of emission in steady state: **0,040 mg/m<sup>3</sup>** (140 h)  
0,032 ppm

#### 7. Conformity to a specification

Specification	German ChemVerbotsV*	IOS-MAT-0181
Requirement	0,1 ppm	0,05 ppm
Result	0,064**	0,032
Evaluation	YES	YES

\* German Chemical Prohibition Ordinance (ChemVerbotsV) §1(3) dated 2017-01-20 in connection with the Bekanntmachung analytischer Verfahren. published on 26 November 2018, BAnz AT 26.11.2018 B2.

- Formaldehyde limit value according to ChemVerbotsV = 0,1 ppm (≤ 0,124 mg/m<sup>3</sup>)

- Starting from 1.1.2020, the chamber method EN 16516 is designated as the reference procedure.

Tests in accordance with the chamber method EN 717-1 can still be performed; however, the test results must be multiplied by a factor of 2; formaldehyde guideline value for test chamber method DIN EN 717-1 (01/2005) = 0,05 ppm (≤ 0,062 mg/m<sup>3</sup>).

\*\* concentration of EN 717-1 test was multiplied by factor 2

Mirosława Mrozek  
Authorized

OB - RPPD spółka z o.o.  
Kierownik  
Laboratorium Badawczego  
mgr inż. Mirosława Mrozek

End of the report