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50-Bru
Dresden, 18 October 2019

Test Report 2519433

Client: MODECOR International GmbH
Neuer Wall 63
20354 Hamburg
Germany

Date of order: 23 September 2019

Order: Determination of the formaldehyde release of laminate (HPL)
according to the gas analysis method DIN EN ISO 12460-3

Contractor: Entwicklungs- und Prüflabor Holztechnologie GmbH
Zellescher Weg 24
D-01217 Dresden

Engineer in Charge: Dipl.-Ing. (FH) S. Hahn



Dipl.-Ing. M. Broege
Head of Laboratory chemical testing

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These test results are exclusively related to the tested material.

1 Task

The Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) was instructed to determine the formaldehyde release of laminate according to the gas analysis method DIN EN ISO 12460-3.

2 Sample material

Date of delivery: 27 September 2019
 Type of packing: airtight wrapped

Table 1: Test material

Sample	Sample description	Sample size	Number of test pieces
1	Laminate - Modacor HPL Modeform	400 mm x 50 mm x 1 mm	6

The remaining test material will be disposed of after 3 months.

3 Investigations carried out

The determination of the formaldehyde release was carried out following the gas analysis method DIN EN ISO 12460-3 on 09 / 14 October 2019.


Precondition: acc. to DIN EN ISO 12460-3 (point 6.1)
 Size of test pieces (mm): 400 x 50
 Edge sealing: full with about 1 mm overlap on the front and back

Limit of detection (LOD) of test method: 0.1 mg HCHO /m²h

The moisture content was determined according to DIN EN ISO 16979.

4 Results and Validation*

Sample	Gas analysis values [mg HCHO /m ² h]					Criteria	
	Single values				Average value (1 st h – 4 th h)	E1 - Quality ¹ fulfilled	
	1h	2h	3h	4h		YES	NO
1	0.52	< LOD	0.14	0.14	0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	0.23	0.12	0.11	< LOD	0.1		


 Dipl.-Ing. (FH) S. Hahn
 Engineer in charge

Validation basis Formaldehyde	Limit value
¹ DIN EN 13986:2015, Table B.1	HCHO: ≤ 3,5 mg/m ² h
German Chemical Prohibition Ordinance §1 (3) dated 2017-01-20 in connection with "Bekanntmachung analytischer Verfahren" published on 26 November 2018, BAnz AT 26.11.2018 B2	Note: Limit value valid for Germany until 31.12.2019

*Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties are not included in the assessment (ILAC G8 03/2009 " Guidelines on the Reporting of Compliance with Specification" Section 2.7).