



Test Report No. 64.431.17.0732.03

Rev. 00

Dated 2017-09-28

Client:

Product Description: The submitted sample was identified and described by client as:
Bamboo
Model No.

Client Reference Information: Exported to: Europe;
Country of Origin: China

Purpose of examination and conclusion: As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No. 1935/2004 Article 3(1).

(1) For material: wood/paper **PASS**
- Specific Migration of formaldehyde
- With reference to EN13130-1: 2004, followed by UV-Vis Spectrometry analysis.

(2) For material: wood/ bamboo **PASS**
- Extractable Formaldehyde
- Sample preparation with reference to EN 647, followed by UV-Vis Spectrometry analysis.

(3) For material: wood/ bamboo **PASS**
- Extractable Lead, Cadmium and Mercury
- With reference to EN 647, followed by ICP-OES analysis

(4) For material: wood/ bamboo **PASS**
- Pentachlorophenol (PCP) content
- Test with reference to ISO 17070:2006, followed by GC/ECD or GC/MS analysis

(5) Sensory test **PASS**
- With reference to DIN 10955
- The submitted sample was tested with distilled water at 70°C for 2 hours. After this treatment treated water was examined by panels with regard to any divergence in smell and taste.

Test Result: Refer to next page(s)

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1. Description

1.1 Sample Description

Sample	Color and Description
001	Brown bamboo

2. Order

2.1 Date of Purchase Order

2017-09-08, 2017-09-19

2.2 Receipt Date of Test Sample, Location

2017-09-08, Guangzhou

2.3 Date of Testing

2017-09-11 to 2017-09-19, 2017-09-20 to 2017-09-28

2.4 Location of Testing

The tests were performed in TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch and the test results were reviewed at TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch.



3. Test Result

3.1 Specific Migration of formaldehyde

- With reference to EN13130-1: 2004, followed by UV-Vis Spectrometry analysis.

Testing condition and simulant: 3% acetic acid at 70°C for 2 hours

Test item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	001	
Specific Migration of formaldehyde	6.53	15

Note: 1. "mg/kg" denotes milligram per kilogram

3.2 Extractable Formaldehyde

- With reference to EN 647, followed by UV-Vis Spectrometry analysis.

Test item	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
	001	
Extractable Formaldehyde	< 0.10	1.0

Note: 1. "mg/dm²" denotes milligram per square decimeter
2. "<" denotes less than
3. The specification was quoted from BfR part XXXVI

3.3 Extractable Lead, Cadmium and Mercury

- With reference to EN 647, followed by ICP-OES and ICP-MS analysis

Test item	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
	001	
Lead	<0.001	0.003
Cadmium	<0.001	0.002
Mercury	<0.001	0.002

Note: 1. "mg/kg" denotes milligram per square decimeter
2. "<" denotes less than
3. The specification was quoted from BfR part XXXVI



3.4 Pentachlorophenol (PCP) content

- Test with reference to ISO 17070:2006, followed by GC/ECD or GC/MS analysis

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	001	
Pentachlorophenol content	< 0.05	0.15

Note: 1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than

3.5 Sensory test

- With reference to DIN 10955.

Testing parameter	Grading result	Recommended level
	001	
Transfer of smell	1.5	< 2.5
Transfer of taste	1.5	< 2.5

Note: 1. Available grading are listed as follow;
Grading 0: No perceptible taste/smell deviation
1: Just perceptible taste/smell deviation
2: Weak taste/smell deviation
3: Clear taste/smell deviation
4: Strong taste/smell deviation
2. "<" means "less than"

4. Remark

- 4.1 The sample was identified by client.
- 4.2 The tests are based upon the client's requirements.
- 4.3 The results relate only to the sample tested.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group



Engineer:

Vincent Luo
Vincent Luo

Test Report checked:

Winnie Wu
Winnie Wu