

SUBJECT Chemical Test

TEST LOCATION TÜV SÜD China
TÜV SÜD 中国

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CLIENT NAME Bibo Brands

CLIENT ADDRESS Torenplein 7.16.1 3500 Hasselt, Belgium

TEST PERIOD 10-Apr-2024~24-Apr-2024

RESULT SUMMARY

- The tested items **complied with** GB 4806.7-2016 National Food Safety Standard Plastic Materials and Articles Intended to Come into Contact with Food.
 - Sensory requirements 001 PASS
 - Overall migration 001 PASS
 - Potassium Permanganate Consumption 001 PASS
 - Heavy metal (as Pb) 001 PASS
 - Decoloring testing 001 PASS
- The tested items **complied with** GB 4806.11-2016 National Food Safety Standard Rubber Materials and Articles Intended to Come into Contact with Food.
 - Sensory requirements 002 PASS
 - Overall migration 002 PASS
 - Potassium Permanganate Consumption 002 PASS
 - Heavy metal (as Pb) 002 PASS
- The tested items **complied with** GB 4806.9-2016 National Food Safety Standard Metal Materials and Articles Intended to Come into Contact with Food.
 - Sensory requirements 003 PASS
 - Chemical test items (As, Cd, Pb, Cr, Ni) 003 PASS

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Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved. propaganda

SAMPLE SOURCE/ RECEIPT DATE / TEST DATE

Logistics Express / 10-Apr-2024/ 10-Apr-2024

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS

Sample Name: Kambukka Reno Insulated 600ml Matte Black - Audi

Sample Type/ Specification: 12-05013(Audi article number:3292400600)

Batch No./Date: 2023-315473

Manufacturer: /

SAMPLE NO.	TEST PART	DESCRIPTION	PHOTOGRAPH
721690221-1	001	Black plastic	
721690221-2	002	Black silicone	
721690221-3	003	Silvery metal	

TEST RESULT(S)

Note: The migration results in this report were tested and expressed based on repeated use articles

1. Sensory requirements

- In accordance with GB 4806.7-2016 National Food Safety Standard Plastic Materials and Articles Intended to Come into Contact with Food

Test Item(s)	Test Result(s)	Index	Comment
	001		
Sensory	Normal color; No abnormal odor; No impurity.	Normal color; No abnormal odor; No impurity and so on.	PASS
Soaking solution	Soaking solutions obtained from the migration test have no turbidity, no precipitate, no abnormal odor and other sensory deterioration.	Soaking solutions obtained from the migration test have no turbidity, no precipitate, no abnormal odor and other sensory deterioration.	PASS

- In accordance with GB 4806.11-2016 National Food Safety Standard Rubber Materials and Articles Intended to Come into Contact with Food.

Test Item(s)	Test Result(s)	Index	Comment
	002		
Sensory	Normal color; No abnormal odor; No dirt.	Normal color; No abnormal odor; No dirt.	PASS
Soaking solution	Soaking solutions obtained from the migration test have no coloring, no turbidity, no precipitate, no abnormal odor and other sensory deterioration.	Soaking solutions obtained from the migration test should have no coloring, no turbidity, no precipitate, no abnormal odor and other sensory deterioration.	PASS

- In accordance with GB 4806.9-2016 National Food Safety Standard Metal Materials and Articles Intended to Come into Contact with Food.

Test Item(s)	Test Result(s)	Index	Comment
	003		
Sensory	The surface in contact with food is clean, the coating has no cracks or peeling; welding part is smooth without pores, cracks or burrs.	The surface in contact with food should be clean, the coating should not have cracks or peeling; welding part should be smooth without pores, cracks or burrs.	PASS
Soaking solution	Soaking solution obtained from the migration test has no abnormal odor.	Soaking solution obtained from the migration test should have no abnormal odor.	PASS

2. Overall migration

- Test method with reference to GB 31604.1-2023 National Food Safety Standard General principles on the determination of migration tests for food contact materials and articles; GB 5009.156-2016 National Food Safety Standard General principles on the pretreatment of migration tests for food contact materials and articles 10.3 Total immersion method; GB 31604.8-2021 National Food Safety Standard Food contact materials and articles Determination of Overall migration
- Sample 001 migration ratio(S/V): 1.14dm²/620ml
- Sample 002 migration ratio(S/V): 0.220dm²/620ml

Simulant(s) Used	Test Condition	Result(s) [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]	Comment
		001 1#		
4% Acetic acid	100°C for 1 hour	<3.0	10	PASS
50% Ethanol	100°C for 1 hour	<3.0	10	PASS

Simulant(s) Used	Test Condition	Result(s) [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]	Comment
		002 2#		
4% Acetic acid	100°C for 1 hour	<3.0	10	PASS
10% Ethanol	100°C for 1 hour	<3.0	10	PASS

Note: 1. 1# denotes the result was calculated by assuming that the sample is used for inner surface of 3.96 dm² food container with a food contact surface of approx. 1.14 dm²;
2. 2# denotes the result was calculated by assuming that the sample is used for inner surface of 3.96 dm² food container with a food contact surface of approx. 0.220 dm².

3. Potassium Permanganate Consumption

- Test method with reference to GB 5009.156-2016 National Food Safety Standard General principles on the pretreatment of migration tests for food contact materials and articles 10.3 Total immersion method; GB 31604.2-2016 National Food Safety Standard Food contact materials and articles Determination of Consumption of potassium permanganate
- Sample 001 migration ratio(S/V): 1.14dm²/620ml
- Sample 002 migration ratio(S/V): 0.220dm²/620ml

Simulant(s) Used	Test Condition	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Comment
		001		
Distilled water	60°C for 2 hours	9.1	10	PASS

Simulant(s) Used	Test Condition	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Comment
		002		
Distilled water	60°C for 0.5 hour	9.5	10	PASS

4. Heavy metal (as Pb)

- Test method with reference to GB 5009.156-2016 National Food Safety Standard General principles on the pretreatment of migration tests for food contact materials and articles 10.3 Total immersion method; GB 31604.9-2016 National Food Safety Standard Food contact materials and articles Determination of Heavy metal in food simulants The first method and The second method
- Sample 001 migration ratio(S/V): 1.14dm²/620ml
- Sample 002 migration ratio(S/V): 0.220dm²/620ml

Simulant(s) Used	Test Condition	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Comment
		001		
4% Acetic acid	60°C for 2 hours	<1.0	1	PASS

Simulant(s) Used	Test Condition	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Comment
		002		
4% Acetic acid	60°C for 0.5 hour	<1.0	1	PASS

5. Decoloring testing

- Test method with reference to GB 31604.1-2023 National Food Safety Standard General principles on the determination of migration tests for food contact materials and articles; GB 5009.156-2016 National Food Safety Standard General principles on the pretreatment of migration tests for food contact materials and articles 10.3 Total immersion method; GB 31604.7-2023 Food safety national standard Food contact materials and articles Decoloring testing

Simulant(s) Used	Test Condition	Result(s)	Maximum Permissible Limit	Comment
		001		
4% Acetic acid	100°C for 1 hour	Negative	Negative	PASS
50% Ethanol	100°C for 1 hour	Negative	Negative	PASS
4% Acetic acid (Wipe)	--	Negative	Negative	PASS
10% Ethanol (Wipe)	--	Negative	Negative	PASS

6. Chemical test items (As, Cd, Pb, Cr, Ni)

- Test method with reference to GB 5009.156-2016 National Food Safety Standard General principles on the pretreatment of migration tests for food contact materials and articles 10.2.1 Filling method General method; GB 31604.49-2023 National Food Safety Standard-Food contact materials and articles Determination of Multi-elements and Migration of Multi-elements
- The sample was immersed in 4% acetic acid boiling for 30mins, and then room temperature storage for 24 hours. The heavy metal content of extracting solution was then analysed using by ICP-MS.
- Sample 003 migration ratio(S/V): 3.96dm²/620ml

Test Item(s)	Result(s) [mg/kg]	Maximum Permissible Limit [mg/kg]	Comment
	003		
As	<0.001	0.04	PASS
Cd	<0.001	0.02	PASS
Pb	<0.001	0.05	PASS
Cr	<0.010	2.0	PASS
Ni	<0.01	0.5	PASS

-END OF THE TEST REPORT-

