

Test Report No.: 68.431.25.1450.01A

Dated: 2025-04-09



Applicant : Bibo Brands
Torenplein 7.16.1 3500 Hasselt, Belgium

Sample Description : Kambukka Elton

Style No. / Name / Design No. : 12-03006, 11-03035, 11-03038, 11-03042, 11-03043,
11-03041, 11-03032, 11-03026, 11-03028, 11-03029,
11-0340

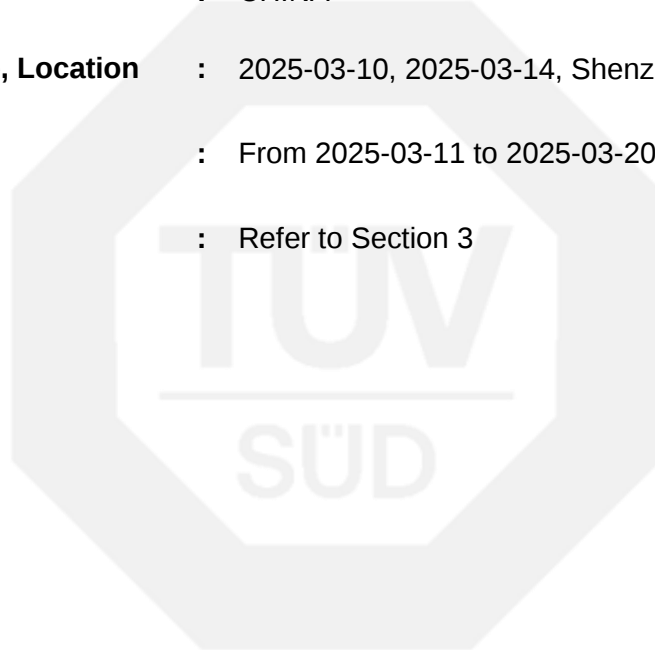
PO No. / Order No. : IO25-0002

Country of Origin : CHINA

Test Sample Receipt Date, Location : 2025-03-10, 2025-03-14, Shenzhen

Test Period, Location : From 2025-03-11 to 2025-03-20, Shenzhen

Test Result(s) : Refer to Section 3



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Lab 2 - Physical & mechanical
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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1	FDA CFR Title 21 Part 177.1210 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210	Pass
2	FDA CFR Title 21 Part 177.1520 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520	Pass
3.	FDA CFR Title 21 Part 177.1500 (Excluding Specific Gravity) Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1500 (for nylon resins in contact with food)	Pass
4	FDA CFR Title 21 Part 177.2420 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420	Pass
5	FDA CFR Title 21 Part 177.2470 Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2470	Pass
6	Total Chromium Content Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test item and samples were specified by the client
- (4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

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TÜV SÜD Group

Prepared by:

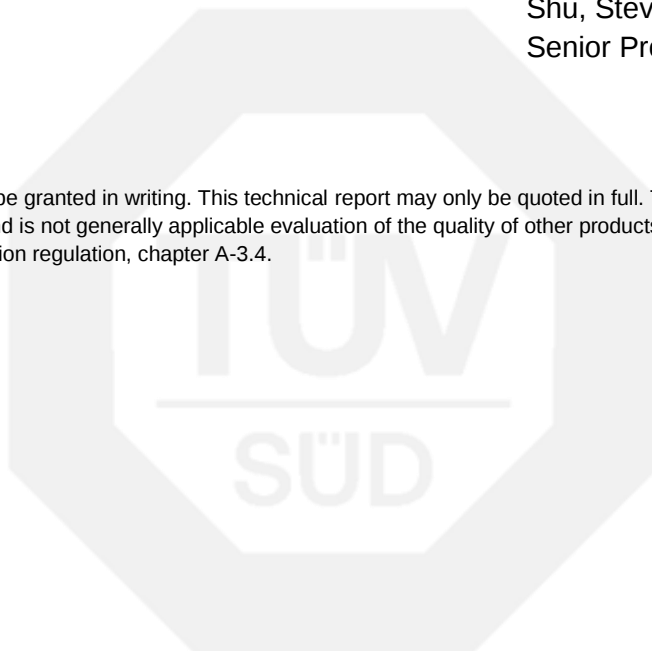
Reviewed by:



Huang, Jessica
Project Manager

Shu, Steven
Senior Project Coordinator

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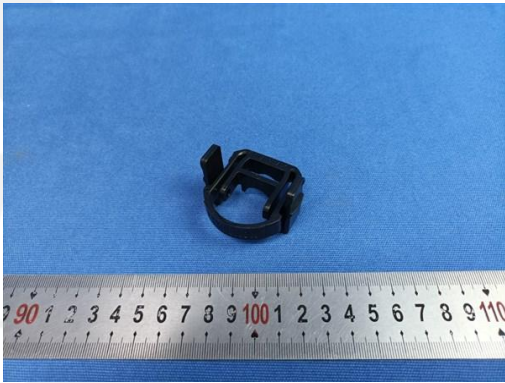
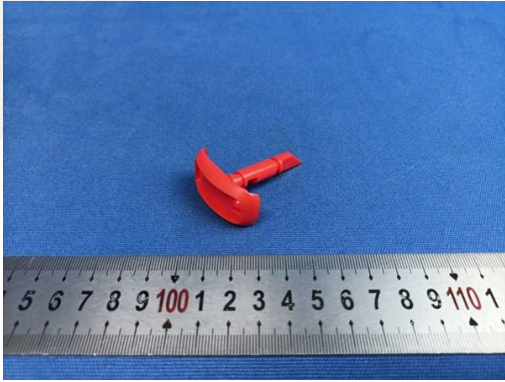


1. Description of the Test Sample:

Sample Description	Kambukka Elton
	



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	002	White plastic lid (HTPP)	
T2	003	Black plastic snapseal holder & snapseal lever (POM)	
T3	004	Red plastic button (POM)	

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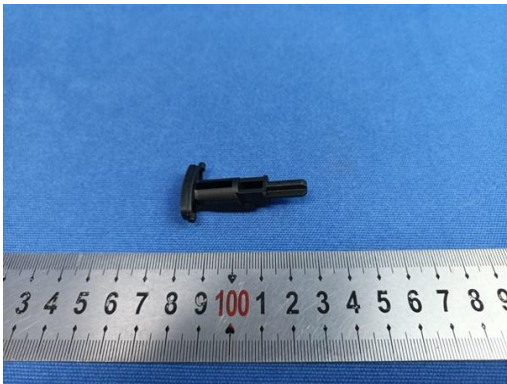
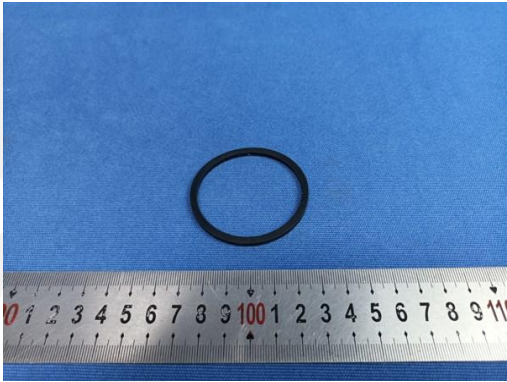
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T. No.	Sample No.	Colour and Description	Photograph
T4	005	Black plastic plunger (PA66)	
T5	006	Black silicone (Sealing ring)	
T6	007	Red silicone (Spout seal)	

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T. No.	Sample No.	Colour and Description	Photograph
T7	009	Transparent plastic body (Tritan)	



3. Test Result

3.1 FDA CFR Title 21 Part 177.1210

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	RESULT [ppm]		CFR Specification [ppm]
		SAMPLE 006	SAMPLE 007	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100°F	<10	<10	50
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100°F	<10	<10	50
Chloroform extractives in N-heptane	120°F, 15 mins	<10	<10	50
Conclusion		Pass	Pass	-

Note:

1. "ppm" denotes part per million
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

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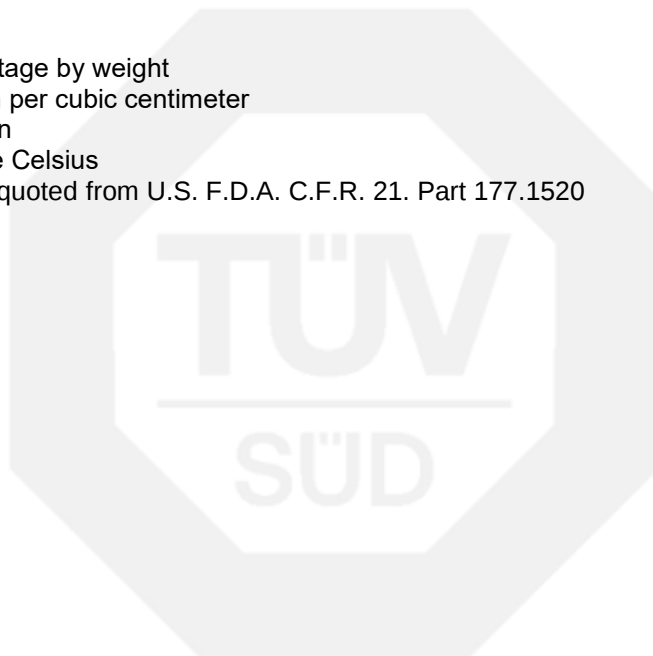
3.2 FDA CFR Title 21 Part 177.1520

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS	CFR Specification [PP/PE Copolymer]
	SAMPLE 002	
Density [g/cc]	0.902	0.85 - 1.00
Maximum extractive in n-hexane 50°C for 2 hours [%]	1.52	5.5
Maximum extractive in xylene after reflux for 2 hours and 25°C for 1 hour [%]	13.71	30
Conclusion	Pass	-

Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520



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3.3 FDA CFR Title 21 Part 177.1500 (Excluding Specific Gravity)

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1500 (for nylon resins in contact with food)

TEST ITEMS	RESULTS	CFR Specification [Nylon 66]
	SAMPLE 005	
Melting Point Range [°F]	491-495	475 - 495
Solubility in boiling 4.2N HCl	Dissolves in 1 hour	Dissolves in 1 hour
Maximum extractive in Distilled Water under reflux for 8 hours[%]	0.39	1.5
Maximum extractive in 95% ethanol under reflux for 8 hours[%]	0.26	1.5
Maximum extractive in Ethyl Acetate under reflux for 8 hours[%]	<0.05	0.2
Maximum extractive in Benzene under reflux for 8 hours[%]	<0.05	0.2
Conclusion	Pass	-

Note:

1. “%” denotes percent by weight
2. “<” denotes less than
3. “°F” denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1500

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3.4 FDA CFR Title 21 Part 177.2420

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2420

TEST ITEMS	TEST CONDITIONS	RESULT [mg/in ²]	CFR Specification [mg/in ²]
		SAMPLE 009	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F	<0.1	<0.1
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	<0.1	<0.1
Chloroform extractives in 50% Ethanol	Fill boiling 50% ethanol and then cool to 100 °F	<0.1	<0.1
Chloroform extractives in N-heptane	120°F for 15 Minutes	<0.1	<0.1
Conclusion		Pass	-

Note:

1. "mg/in²" denotes milligram per square inch
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.2420

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3.5 FDA CFR Title 21 Part 177.2470

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.2470

TEST ITEMS	TEST CONDITIONS	RESULTS		CFR Specification [POM-Copolymer]
		SAMPLE 003	SAMPLE 004	
Chloroform Extractive in Distilled water[mg/in ²]	Fill boiling water and then cool to 100 °F	<0.1	<0.1	0.5
Chloroform Extractive in 8% Ethanol [mg/in ²]	Fill boiling 8% ethanol and then cool to 100 °F	<0.1	<0.1	0.5
Chloroform Extractive in n-heptane[mg/in ²]	120°F for 15 Minutes	<0.1	<0.1	0.5
Reflux extractive in Distilled water[%]	Reflux for 6 hours	<0.05	<0.05	0.2
Reflux extractive in n-heptane[%]	Reflux for 6 hours	0.08	0.11	0.15
Conclusion		Pass	Pass	-

Note:

1. "mg/in²" denotes milligram per square inch
2. "%" denotes percentage by weight
3. "<" denotes less than
4. "°F" denotes degree Fahrenheit
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.2470

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3.6 Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel

Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	Sample 008
Total Chromium(Cr)	18.27
Limit	Not less than 16
Conclusion	Pass

Note:

- “%” denotes percentage by weight

-- END OF TEST REPORT--



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APPENDIX: Reference information/photos of Submitted Sample

The following information/photos were submitted and identified by the client, reference only.



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