Test Report

No.: HTF23C00326 DATE: 2023/12/21

WAN CHAO LIFE TECHNOLOGY CO., LTD.
NO. 50-3, PIH-DAU-LI, TAMSUI DISTRICT, NEW TAIPEI CITY, TAIWAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By	:	WAN CHAO LIFE TECHNOLOGY CO., LTD.
Sample Description	:	不銹鋼杯 STAINLESS STEEL MUG
Sample Material	:	NO.1:PP, NO.2:PS, NO..3:SILICONE, NO.4:STAINLESS STEEL

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Sample Receiving Date	:	2023/12/12
Testing Period	:	2023/12/12 to 2023/12/21

Test Requested :

(1) As specified by client, the sample(s) was/were tested with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, BfR recommendations, Regulation (EU) No 10/2011 with amendments and hence Article 3 of Regulation (EC) No 1935/2004. Please refer to the result table for testing item(s).

(2) As specified by client, the sample(s) was/were tested with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, BfR recommendations and hence Article 3 of Regulation (EC) No 1935/2004. Please refer to the result table for testing item(s).

(3) As specified by client, the sample(s) was/were tested with reference to Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9, LFGB Section 30 & 31, Regulation (EC) No. 1935/2004. Please refer to the result table for testing item(s).

Test Result(s) : Please refer to next page(s).

Singh Hsiao / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Part Description

No.1	:	BLACK PLASTIC
No.2	:	BLACK TRANSLUCENT PLASTIC LID
No.3	:	TRANSLUCENT SILICONE RING
No.4	:	SILVER COLORED METAL

Test Result(s)

(1) PASS

Test Item(s)	Method	Unit	RL	Result No.1			Limit
				1st	2nd	3rd	
Overall Migration (3% acetic acid, 70℃, 2 h)	With reference to EN 1186: 2022.	mg/dm²	3	n.d.	n.d.	n.d.	10 (■1)
Specific Migration of Bisphenol A	With reference to EN 13130-1: 2004. Analysis was performed by LC/MS/MS. (3% acetic acid, 70℃, 2 h)	mg/kg	0.01	n.d.	n.d.	n.d.	0.05 (■1)
The ratio of surface area to volume for overall migration		dm²/kg	-	6.30			-
The ratio of surface area to volume for specific migration		dm²/kg	-	6.30			-
Stability				Compliant			-

Test Item(s)	Method	Unit	RL	Result No.2			Limit
				1st	2nd	3rd	
Overall Migration (3% acetic acid, 70℃, 2 h)	With reference to EN 1186: 2022.	mg/dm²	3	n.d.	n.d.	n.d.	10 (■1)
Specific Migration of Bisphenol A	With reference to EN 13130-1: 2004. Analysis was performed by LC/MS/MS. (3% acetic acid, 70℃, 2 h)	mg/kg	0.01	n.d.	n.d.	n.d.	0.05 (■1)
The ratio of surface area to volume for overall migration		dm²/kg	-	10.0			-
The ratio of surface area to volume for specific migration		dm²/kg	-	6.00			-
Stability				Compliant			-

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(1)

Test Item(s)	Method	Unit	RL	Result			Limit
				No.1	No.2	No.3	
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	With reference to EN 14372: 2004. Analysis was performed by GC-MS.	mg/kg	30	n.d.	n.d.	---	1000 (■1)
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		mg/kg	30	n.d.	n.d.	---	1000 (■1)
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		mg/kg	100	n.d.	n.d.	---	1000 (■1)
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		mg/kg	100	n.d.	n.d.	---	1000 (■1)
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		mg/kg	30	n.d.	n.d.	---	500 (■1)
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		mg/kg	30	n.d.	n.d.	---	-

Remark：

- Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
- The compliance is based on the stability trend and 3rd migration result.
- (■1) Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

(2) PASS

Test Item(s)	Method	Unit	RL	Result			Limit
				No.1	No.2	No.3	
Extractable Component (3 % acetic acid, 70℃, 2 h)	With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46 (2003) 362.	%	0.1	---	---	n.d.	0.5 (▲2)

Remark：

- (▲2) Limit is according to BfR Recommendation XV.

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(3) PASS

Test Item(s)	Method	Unit	RL	Result No.4		7xSRL	SRL
				1st+2nd	3rd		
CM/Res (2013) 9 (artificial tap water, 70℃, 2 h, repeated use)							
Tin (Sn)	With reference to EN 13130-1:2004, the analysis was performed by ICP-MS, ICP-OES.	mg/kg	5	n.d.	n.d.	700	100
Zinc (Zn)		mg/kg	1	n.d.	n.d.	35	5
Magnesium (Mg)		mg/kg	5	n.d.	n.d.	-	-
Chromium (Cr)		mg/kg	0.1	n.d.	n.d.	1.75	0.25
Beryllium (Be)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Nickel (Ni)		mg/kg	0.05	n.d.	n.d.	0.98	0.14
Thallium (Tl)		mg/kg	0.0001	0.0004	n.d.	0.0007	0.0001
Manganese (Mn)		mg/kg	0.25	n.d.	n.d.	12.6	1.8
Vanadium (V)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Barium (Ba)		mg/kg	0.25	n.d.	n.d.	8.4	1.2
Iron (Fe)		mg/kg	0.25	n.d.	n.d.	280	40
Aluminum (Al)		mg/kg	0.2	n.d.	n.d.	35	5
Mercury (Hg)		mg/kg	0.002	n.d.	n.d.	0.021	0.003
Antimony (Sb)		mg/kg	0.02	n.d.	n.d.	0.28	0.04
Lead (Pb)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Cadmium (Cd)		mg/kg	0.002	n.d.	n.d.	0.035	0.005
Cobalt (Co)		mg/kg	0.01	n.d.	n.d.	0.14	0.02
Titanium (Ti)		mg/kg	0.05	n.d.	n.d.	-	-
Lithium (Li)		mg/kg	0.02	n.d.	n.d.	0.336	0.048
Arsenic (As)		mg/kg	0.001	n.d.	n.d.	0.014	0.002
Molybdenum (Mo)		mg/kg	0.02	n.d.	n.d.	0.84	0.12
Silver (Ag)		mg/kg	0.03	n.d.	n.d.	0.56	0.08
Copper (Cu)		mg/kg	0.1	n.d.	n.d.	28	4

Remark :

- Test condition & simulant were specified by client.
- The volume of simulant used : 0.42 L.
- SRL = Specific Release Limit
- According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles.

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Note:

1. mg/kg = ppm；0.1% = 1000 ppm
2. mg/dm² = milligram per square decimeter
3. RL = Reporting Limit
4. n.d. = Not Detected = Less than RL
5. "-" = No Regulated
6. "---" = No Conducted
7. °C = degree Celsius
8. The report is invalid if it is partly reproduced or used.
9. Test condition and simulant were specified by client.
10. The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.

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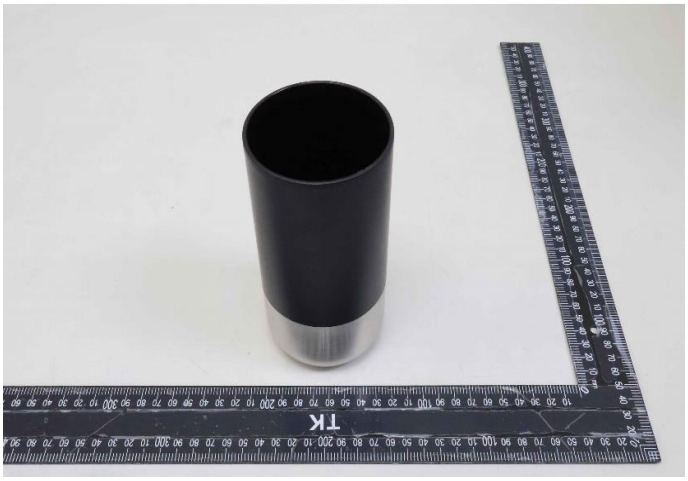
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*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

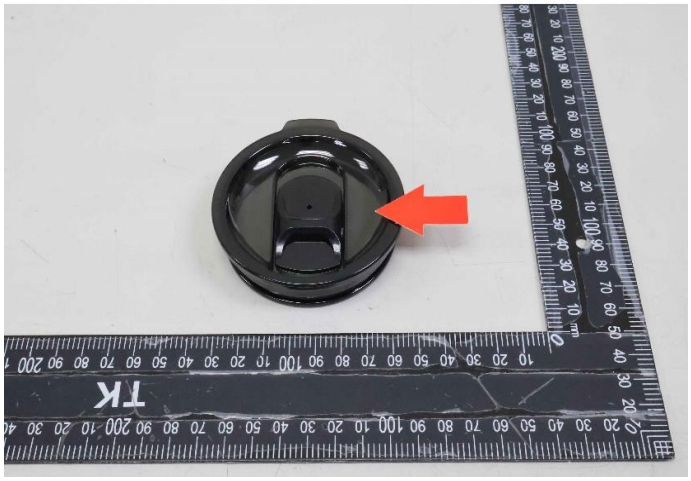
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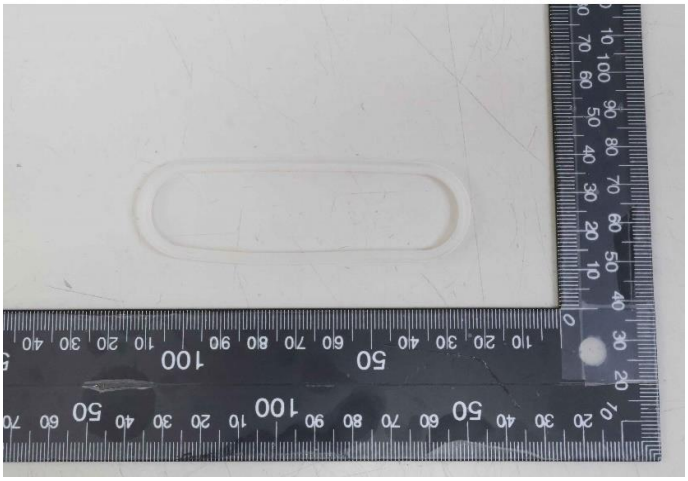
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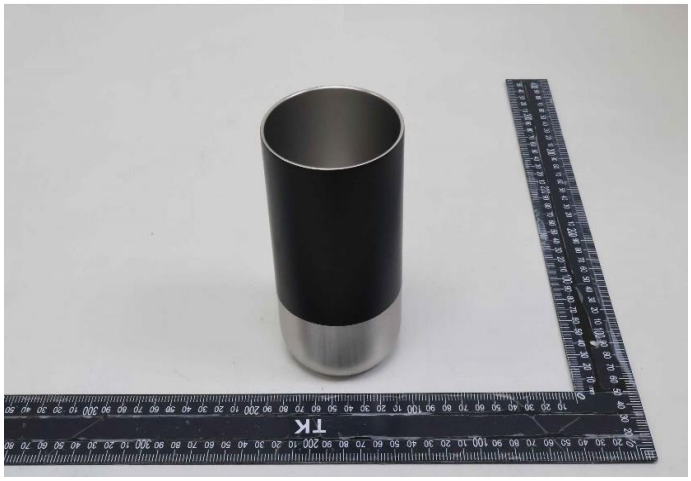
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HTF23C00326 NO.4



**** End of Report ****

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