

Declaration of Conformity (with test reports) for Horizon Straw Tumbler



The undersigned, representing the following supplier

CamelBak Products, LLC

2000 South McDowell Blvd, Suite 200
 Petaluma, CA 94954, USA

Declare, under our sole responsibility, that the products:

- **CB SKU 2747001060 (Leeds ID# 1627-38BK) CamelBak Straw Tumbler 20oz, Black**
- **CB SKU 2747101060 (Leeds ID# 1627-38WH) CamelBak Straw Tumbler 20oz, White**
- **CB SKU 2748001085 (Leeds ID# 1627-39BK) CamelBak Straw Tumbler 30oz, Black**

to which this declaration relates, conform with the following standard(s) for *food contact materials and articles*. The in use temperature shall range between **0-100 degrees Celsius** and it is recommended to use the contents within **24 hours**.

Standard / Regulation	Description
US FDA 21 CFR 177.1240	1,4-cyclohexylene dimethylene terephthalate and 1,4-cyclohexylene dimethylene isophthalate copolymer in contact with food
US FDA 21 CFR 177.1520	Olefin polymers in food contact.
US FDA 21 CFR 177.2600	Rubber articles intended for repeated use food contact.
FDA GRAS Guidelines	FDA requirements for materials Generally Recognized As Safe
US FDA 21 CFR 178.3297	Colorants for polymers in food contact
EC Regulation No. 1935/2004	Directive on material and articles intended to come into contact with food
EU Regulation No. 10/2011 (as amended by EU 2015/174 and EU 2016/1416)	Relating to plastic materials and articles intended to come into contact with food stuffs & migration limits
EN Standard 14350-2:2004	Migration of certain elements (heavy metals)
CE Resolution AP (89) 1	On colorants in food contact plastics
CE Resolution AP (2004) 5	On silicones used for food contact applications
EU Regulation No. 2023/2006	Good manufacturing practice for materials and articles intended to come into contact with food
EC Regulation No. 1907/2006	Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
German LFGB Section 30	Extractable heavy metals from stainless steel
Italian Departmental Order DM 140/2015	Suitability of stainless steel objects in contact with food
BPA content	BPA content of each plastic part determined to be less than 1 ppm, by solvent extraction followed by LC-MSMS, HPLC-MSD, or HPLC-FLD analysis

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Parts Information for Straw Tumbler

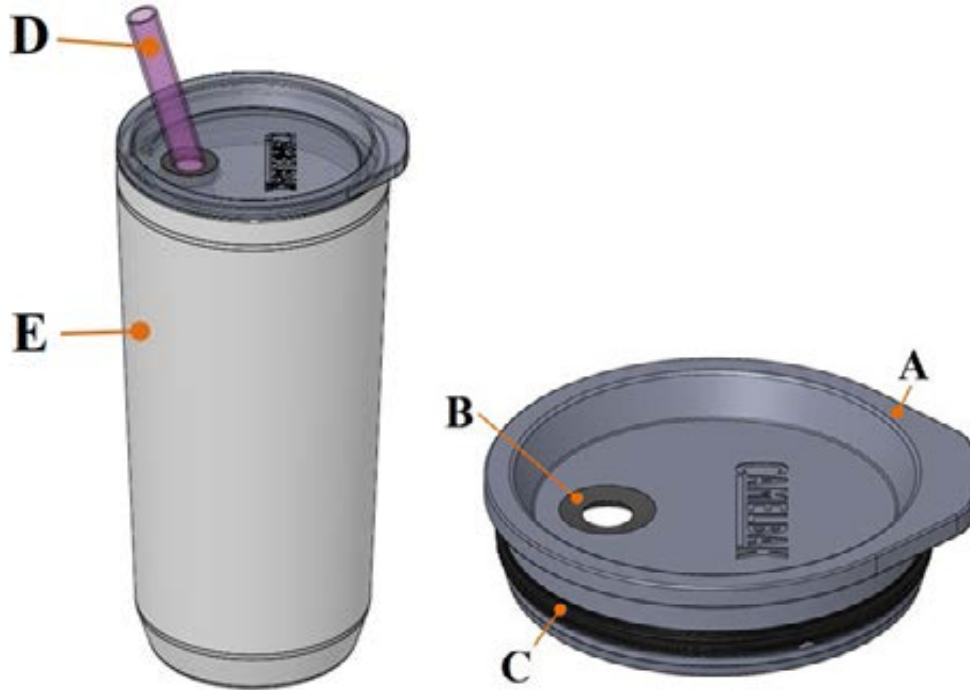


Table 1: Material and Manufacturing Process, by Part, for Horizon series Straw Tumbler

	<i>Part Description</i>	<i>Material Type</i>	<i>Mfg. Process</i>
A	Lid body	Eastman Tritan copolyester	Injection molded
B	Overmolded straw gasket	TPE	Compression molded
C	Lid-to-vessel gasket	silicone	Compression molded
D	Rigid straw	Eastman Tritan copolyester	Injection molded
E	Vessel, vacuum stainless	Double wall type 304 stainless vessel, vacuum insulated	Rolled

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The technical construction file and supplemental information required by the regulation is maintained at the corporate headquarters of:

CamelBak Products, LLC at 2000 South McDowell Blvd, Suite 200, Petaluma, CA 94954 USA

The authorized representative located within the European Community is:

CamelBak Products, LLC, River House, St. Mary's Road, Newcastle West, Ireland

I, the undersigned, hereby declare that the products specified above conform to the listed directives and standards, and that the specifications are correct.

Name: Mitch Gordon

Signature: 

Company Title: Regulatory Manager

Date: March 9, 2022

Test Reports

Lab	Test Report ID	Test Date	Pages	Tested Item	Standard(s) Tested To
SGS Qingdao	QDHL2201000789CW	2/7/2022	23	Straw Tumbler+Can Cooler plastic parts	- FDA 21 CFR, plastics in food contact
SGS Qingdao	QDHL2008008669CW	9/2/2020	28	Horizon tumblers, mug and bottle	- FDA 21 CFR, plastics in food contact

Please note the following points:

- The above-listed test report(s) is/are attached below.
- The details of which parts are included in which products, and which parts are tested on which test reports, are found in the two tabs of the spreadsheet entitled "**parts testing traceability - Straw Tumblers.xlsx**"

SINOGLASS HOUSEWARES CO.,LTD.
26TH FLOOR,EAST TOWER,TRIUMPH PLAZA,43 DONG HAI XI ROAD,QINGDAO,P.R.CHINA 266071

Sample Description : STRAW TUMBLER AND CAN COOLER PLASTIC PARTS
Buyer : CAMELBAK PRODUCTS LLC
Manufacturer : SINOGLASS HOUSEWARES CO.,LTD
Supplier : SINOGLASS HOUSEWARES CO.,LTD
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : TAOHG2200455801/ TAOHG2200454701/ TAOHG2200455601/
SHAHG2201662502 /SHAHG2201665301

Sample Receiving Date : Jan 21, 2022
Final Information Date : Feb 07, 2022
Test Performing Date : Jan 21, 2022 to Feb 07, 2022

Test Requested

Test Result

- | | |
|--|-------------|
| 1. Entry 51 & Entry 52 of Regulation (EU) 2018/2005 & Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 Phthalates | Pass |
| 2. US FDA 21 CFR 177.2600- Total extractives | Pass |
| 3. US FDA 21 CFR 177.1520- Extractable fraction | Pass |
| 4. US FDA 21 CFR 177.1520- Soluble fraction in Xylene | Pass |
| 5. US FDA 21 CFR 177.1520- Density at 23°C | See Results |
| 6. US FDA 21 CFR 177.1520- Melting point | See Results |



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Test Requested

Test Result

7. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration	Pass
8. Council of Europe Resolution AP (2004) 5-Overall migration	Pass
9. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of bisphenol A(BPA)	Pass
10. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal	Pass
11. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)	Pass
12. Bisphenol S(BPS),Bisphenol F(BPF)	See Results
13. US FDA 21 CFR 177.1240–Total extractives	See Results

Remark: -Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.




Zhou Xinkuan, SK
Authorized Signatory



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Appendix:

No.	Part No.	Part Description	Material	SGS Sample ID	SGS Description
001	107227001	Collar, Can Cooler, Std, Black/Black	PP Homopolymer	TAO22-004547.001 TAO22-004556.001	Black plastic ring
002	107227402	Collar, Can Cooler, Std, Coastal(563C)/Coastal (563C)	PP Homopolymer	TAO22-004547.002 TAO22-004556.002 TAO22-004558.001 SHA22-016625.001	Seagreen plastic ring
003	107227501	Collar, Can Cooler, Std, Magenta(254U)/Magenta(254U)	PP Homopolymer	TAO22-004547.003 TAO22-004556.003	Magenta plastic ring
004	107227301	Collar, Can Cooler, Std, Moss(5615C)/Moss(5615C)	PP Homopolymer	TAO22-004547.004 TAO22-004556.004	Dark green plastic ring
005	107227401	Collar, Can Cooler, Std, Navy(2767C)/Navy(2767C)	PP Homopolymer	TAO22-004547.005 TAO22-004556.005	Navy blue plastic ring
006	107227101	Collar, Can Cooler, Std, White/White	PP Homopolymer	TAO22-004547.006 TAO22-004556.006	White plastic ring
007	107168001	Straw Lid 2nd Shot, Straw Tumbler 86mm, Overmolded TPE gasket	TPE	TAO22-004547.007 TAO22-004556.007 TAO22-004558.002 SHA22-016625.002	Black soft plastic sheet
008	106337601	Straw, Straw Tumbler, Tritan, 10mm x 254mm, Coral (178c)	Tritan	TAO22-004556.008 SHA22-016653.004	Red plastic straw
009	106337001	Straw, Straw Tumbler, Tritan, 10mm x 254mm, Grey (T705-1-3)/Charcoal	Tritan	TAO22-004556.009 SHA22-016653.001	Grey plastic straw
010	106337602	Straw, Straw Tumbler, Tritan, 10mm x 254mm, Pink (T085-2-4)/Grapefruit	Tritan	TAO22-004556.010 SHA22-016653.003	Pink plastic straw
011	106337401	Straw, Straw Tumbler, Tritan, 10mm x 254mm, Teal (315c)	Tritan	TAO22-004556.011 SHA22-016653.002	Teal plastic straw



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Test Results:

1. Entry 51 & Entry 52 of Regulation (EU) 2018/2005 & Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Phthalates

Test Method : With reference to EN 14372: 2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	No.002	No.007
Dibutyl Phthalate (DBP)	0.1	%	0.003	ND	ND
Benzylbutyl Phthalate (BBP)	0.1	%	0.003	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	0.1	%	0.003	ND	ND
Diisobutyl Phthalate (DIBP)	0.1	%	0.003	ND	ND
Total(DBP+BBP+DEHP+DIBP)	0.1	%	-	ND	ND
Diisononyl Phthalate (DINP)	-	%	0.010	ND	ND
Di-n-octyl Phthalate (DNOP)	-	%	0.003	ND	ND
Diisodecyl Phthalate (DIDP)	-	%	0.010	ND	ND
Total (DINP + DNOP + DIDP)	0.1	%	-	ND	ND
Conclusion	-	-	-	PASS	PASS

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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2. US FDA 21 CFR 177.2600- Total extractives

Test Method : With reference to US FDA 21 CFR 177.2600.

Simulant Used	Time	Temperature	Max. Permissible Limit	No. 007 Total Extractives	Conclusion
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	PASS
Distilled water Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	PASS

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

3. US FDA 21 CFR 177.1520- Extractable fraction

Test Method : With reference to US FDA 21 CFR 177.1520(d) 3 (i).

Simulant Used	Time	Temperature	Max. Permissible Limit
n-Hexane	2hr(s)	Reflux temperature	6.4% (w/w)

Simulant Used	No.001	No.002	No.003
n-Hexane	<0.5% (w/w)	<0.5% (w/w)	<0.5% (w/w)
Conclusion	PASS	PASS	PASS

Simulant Used	No.004	No.005	No.006
n-Hexane	<0.5% (w/w)	<0.5% (w/w)	<0.5% (w/w)
Conclusion	PASS	PASS	PASS

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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4. US FDA 21 CFR 177.1520- Soluble fraction in Xylene

Test Method : With reference to US FDA 21 CFR 177.1520 (d) 4 (i).

Test Item(s)	Limit	Unit	MDL
Soluble fraction in Xylene	9.8	% (w/w)	0.5

Test Item(s)	No.001	No.002	No.003	No.004	No.005	No.006
Soluble fraction in Xylene	1.8	2.0	1.9	1.9	1.9	2.1
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

5. US FDA 21 CFR 177.1520- Density at 23°C

Test Method : With reference to US FDA 21 CFR 177.1520 d (1).

Test Item(s)	Limit	No.001	No.002	No.003	No.004	No.005	No.006
Density at 23°C, g/cm ³	0.880-0.913	0.908	0.913	0.913	0.909	0.910	0.90
Conclusion	-	-	-	-	-	-	-

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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6. US FDA 21 CFR 177.1520- Melting point

Test Method : With reference to US FDA 21 CFR 177.1520 (d) (2).

Test Item(s)	Limit	No.001	No.002	No.003	No.004	No.005	No.006
Melting point, °C*	160-180	168	167	167	167	168	168
Conclusion	-	-	-	-	-	-	-

Notes :

- (1) *The test was subcontracted to SGS Ningbo chemical lab.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

7. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3: 2002 aqueous food simulants by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit
3% Acetic acid (W/V) aqueous solution (Third migration)	2.0hr(s)	70°C	60mg/kg
3% Acetic acid (W/V) aqueous solution (Second migration)			-
3% Acetic acid (W/V) aqueous solution (First migration)			-
20% Ethanol (V/V) Aqueous Solution (Third migration)			60mg/kg
20% Ethanol (V/V) Aqueous Solution (Second migration)			-
20% Ethanol (V/V) Aqueous Solution (First migration)			-



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Simulant Used	No.001	No.002	No.003	No.004	Conclusion
Overall migration					
3% Acetic acid (W/V) aqueous solution (Third migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	PASS
3% Acetic acid (W/V) aqueous solution (Second migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	-
3% Acetic acid (W/V) aqueous solution (First migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	-
Stability	-	-	-	-	YES
20% Ethanol (V/V) Aqueous Solution (Third migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	PASS
20% Ethanol (V/V) Aqueous Solution (Second migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	-
20% Ethanol (V/V) Aqueous Solution (First migration)	<20mg/kg	<20mg/kg	<20mg/kg	<20mg/kg	-
Stability	-	-	-	-	YES

Simulant Used	No.005	No.006	No.008	Conclusion
Overall migration				
3% Acetic acid (W/V) aqueous solution (Third migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	PASS
3% Acetic acid (W/V) aqueous solution (Second migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	-
3% Acetic acid (W/V) aqueous solution (First migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	-
Stability	-	-	-	YES
20% Ethanol (V/V) Aqueous Solution (Third migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	PASS
20% Ethanol (V/V) Aqueous Solution (Second migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	-
20% Ethanol (V/V) Aqueous Solution (First migration)	<20mg/kg	<20mg/kg	<3mg/dm ²	-
Stability	-	-	-	YES



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Simulant Used	No.009	No.010	No.011	Conclusion
	Overall migration			
3% Acetic acid (W/V) aqueous solution (Third migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	PASS
3% Acetic acid (W/V) aqueous solution (Second migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	-
3% Acetic acid (W/V) aqueous solution (First migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	-
Stability	-	-	-	YES
20% Ethanol (V/V) Aqueous Solution (Third migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	PASS
20% Ethanol (V/V) Aqueous Solution (Second migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	-
20% Ethanol (V/V) Aqueous Solution (First migration)	<3mg/dm ²	<3mg/dm ²	<3mg/dm ²	-
Stability	-	-	-	YES

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



8. Council of Europe Resolution AP (2004) 5-Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3: 2002 aqueous food simulants by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit
3% Acetic acid (W/V) aqueous solution	2.0hr(s)	70℃	10mg/dm ²
20% Ethanol (V/V) aqueous solution			10mg/dm ²

Simulant Used	No.007	Conclusion
	Overall migration	
3% Acetic acid (W/V) aqueous solution	<3.0mg/dm ²	PASS
20% Ethanol (V/V) aqueous solution	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) Report the third migration result.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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9. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of bisphenol A(BPA)

Test Method : With reference to EN 13130-1: 2004, analysis was performed by HPLC-MS.

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Condition: Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution Test Condition: 20 °C 24.0hr(s)
Migration times	-	-	-	
Area/volume	-	dm ² /kg	-	
Specific migration of Bisphenol-A	-	mg/kg	0.01	

Test Item(s)	No.002	No.002	No.002
Migration times	First	Second	Third
Area/volume	3.9	3.9	3.9
Specific migration of Bisphenol-A	ND	ND	ND
Stability	-	-	YES
Conclusion	-	-	PASS

Test Item(s)	No.007	No.007	No.007
Migration times	First	Second	Third
Area/volume	6.0	6.0	6.0
Specific migration of Bisphenol-A	ND	ND	ND
Stability	-	-	YES
Conclusion	-	-	PASS

Notes :

- (1) Test condition & simulant were specified by client.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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10. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES and ICP-MS.

Test Item(s)	Max. Permissible Limit	Max. Permissible Limit	Max. Permissible Limit	Unit	MDL
Migration times	First	Second	Third	-	-
Area/volume	-	-	-	dm ² /kg	-
Arsenic (As)	ND	-	ND	mg/kg	0.01
Cadmium (Cd)	ND	-	ND	mg/kg	0.002
Chromium (Cr)	ND	-	ND	mg/kg	0.01
Mercury (Hg)	ND	-	ND	mg/kg	0.01
Lead (Pb)	ND	-	ND	mg/kg	0.01
Aluminium (Al)	-	-	1	mg/kg	0.1
Barium (Ba)	-	-	1	mg/kg	0.25
Cobalt (Co)	-	-	0.05	mg/kg	0.01
Copper (Cu)	-	-	5	mg/kg	0.25
Iron (Fe)	-	-	48	mg/kg	5
Lithium (Li)	-	-	0.6	mg/kg	0.1
Manganese (Mn)	-	-	0.6	mg/kg	0.1
Zinc (Zn)	-	-	5	mg/kg	0.5
Nickel (Ni)	-	-	0.02	mg/kg	0.01
Antimony (Sb)	-	-	0.04	mg/kg	0.01
Europium (Eu)	-	-	-	mg/kg	0.025
Gadolinium (Gd)	-	-	-	mg/kg	0.025
Lanthanum (La)	-	-	-	mg/kg	0.025
Terbium (Tb)	-	-	-	mg/kg	0.025
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	-	-	0.05	mg/kg	-

Test Condition:
 Simulant Used:
 3% Acetic acid
 (W/V) aqueous
 solution
 Test Condition:
 20°C 24.0hr(s)



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Test Item(s)	No.001	No.002	No.003	No.004	No.005	No.006
Migration times	First	First	First	First	First	First
Area/volume	3.9	3.9	3.9	3.9	3.9	3.9
Arsenic (As)	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND	ND	ND



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Test Item(s)	No.008	No.009	No.010	No.011
Migration times	First	First	First	First
Area/volume	6.0	6.0	6.0	6.0
Arsenic (As)	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND



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Test Item(s)	No.001	No.002	No.003	No.004	No.005	No.006
Migration times	Second	Second	Second	Second	Second	Second
Area/volume	3.9	3.9	3.9	3.9	3.9	3.9
Arsenic (As)	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND	ND	ND



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Test Item(s)	No.008	No.009	No.010	No.011
Migration times	Second	Second	Second	Second
Area/volume	6.0	6.0	6.0	6.0
Arsenic (As)	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND



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Test Item(s)	No.001	No.002	No.003	No.004	No.005	No.006
Migration times	Third	Third	Third	Third	Third	Third
Area/volume	3.9	3.9	3.9	3.9	3.9	3.9
Arsenic (As)	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND	ND	ND
Stability	YES	YES	YES	YES	YES	YES
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS



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Test Item(s)	No.008	No.009	No.010	No.011
Migration times	Third	Third	Third	Third
Area/volume	6.0	6.0	6.0	6.0
Arsenic (As)	ND	ND	ND	ND
Cadmium (Cd)	ND	ND	ND	ND
Chromium (Cr)	ND	ND	ND	ND
Mercury (Hg)	ND	ND	ND	ND
Lead (Pb)	ND	ND	ND	ND
Aluminium (Al)	ND	ND	ND	ND
Barium (Ba)	ND	ND	ND	ND
Cobalt (Co)	ND	ND	ND	ND
Copper (Cu)	ND	ND	ND	ND
Iron (Fe)	ND	ND	ND	ND
Lithium (Li)	ND	ND	ND	ND
Manganese (Mn)	ND	ND	ND	ND
Zinc (Zn)	ND	ND	ND	ND
Nickel (Ni)	ND	ND	ND	ND
Antimony (Sb)	ND	ND	ND	ND
Europium (Eu)	ND	ND	ND	ND
Gadolinium (Gd)	ND	ND	ND	ND
Lanthanum (La)	ND	ND	ND	ND
Terbium (Tb)	ND	ND	ND	ND
Europium (Eu)+ Gadolinium (Gd)+ Lanthanum (La)+ Terbium (Tb)	ND	ND	ND	ND
Stability	YES	YES	YES	YES
Conclusion	PASS	PASS	PASS	PASS

Notes :

- (1) Test condition & simulant were specified by client.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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11. (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)

Test Method : With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Condition: Simulant Used: 3% Acetic acid (W/V) aqueous solution Test Condition: 20 °C 24.0hr(s)
Migration times	-	-	-	
Area/volume	-	dm ² /kg	-	
Specific migration of primary aromatic amine	-	mg/kg	0.002	

Test Item(s)	No.002	No.002	No.002
Migration times	First	Second	Third
Area/volume	3.9	3.9	3.9
Specific migration of primary aromatic amine	ND	ND	ND
Stability	-	-	YES
Conclusion	-	-	PASS

Test Item(s)	No.008	No.008	No.008
Migration times	First	Second	Third
Area/volume	6.0	6.0	6.0
Specific migration of primary aromatic amine	ND	ND	ND
Stability	-	-	YES
Conclusion	-	-	PASS

Notes :

- (1) Test condition & simulant were specified by client.

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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12. Bisphenol S(BPS),Bisphenol F(BPF)

Test Method : Extraction by organic solvent, analysis by HPLC-DAD-MS.

Test Item(s)	Unit	MDL	No.002	No.007
Bisphenol S(BPS)	mg/kg	1	ND	ND
Bisphenol F(BPF)	mg/kg	1	ND	ND

Notes: The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

13. US FDA 21 CFR 177.1240–Total extractives

Test Method : As specified in US FDA 21 CFR 177.1240

Simulant Used	Time	Temperature	Max. Permissible Limit
Distilled water	2hr(s)	reflux temperature	0.05%
Ethyl acetate			0.7%
n-Hexane			0.05%

Simulant Used	No.008	No.009
	Total Extractives	
Distilled water	0.01%	0.01%
Ethyl acetate	0.32%	0.42%
n-Hexane	0.02%	0.02%

Simulant Used	No.010	No.011
	Total Extractives	
Distilled water	0.01%	<0.01%
Ethyl acetate	0.43%	0.37%
n-Hexane	0.02%	0.02%



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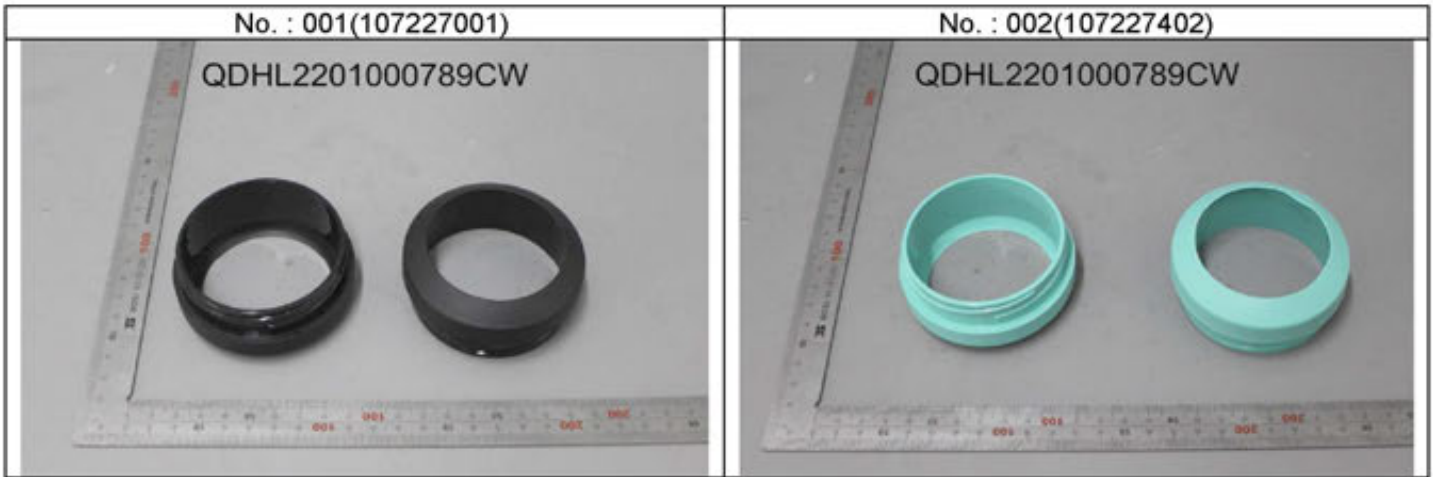
Notes :

1. Limit = Reference limit. The test sample is out of scope of the standard.
2. The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).

Remarks :

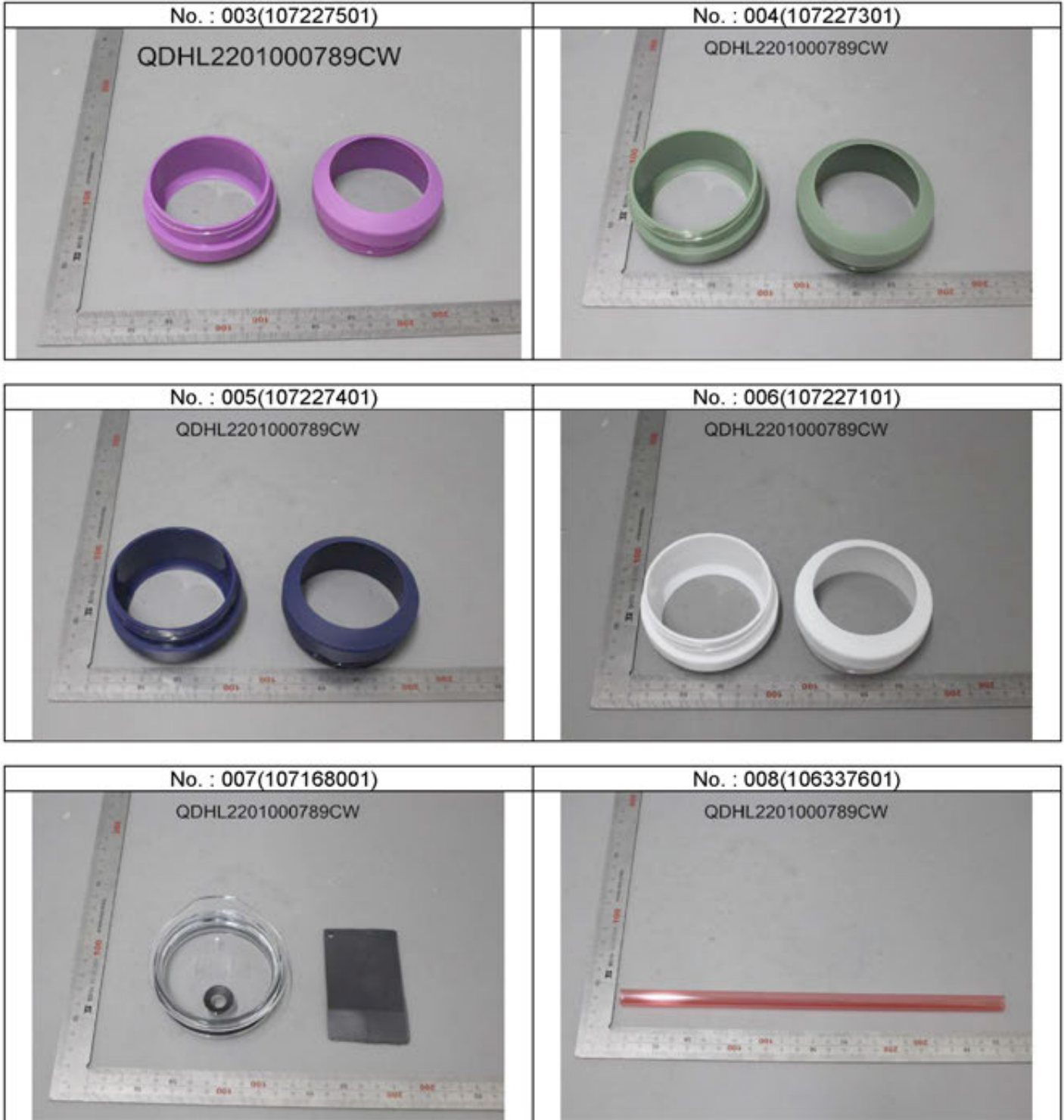
- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Sample Photo:



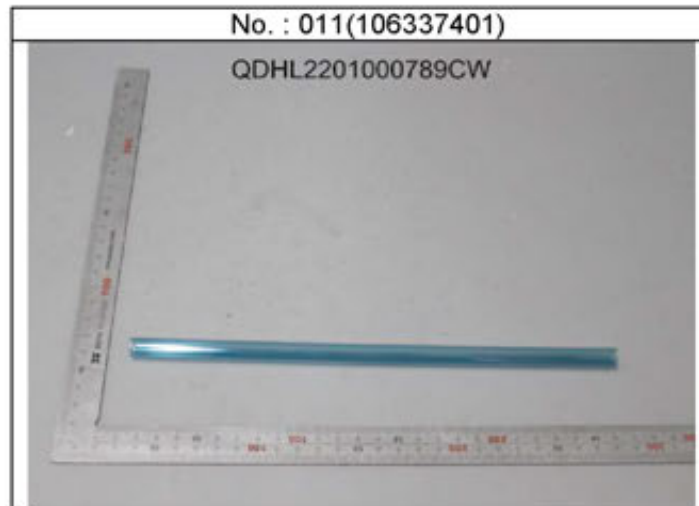
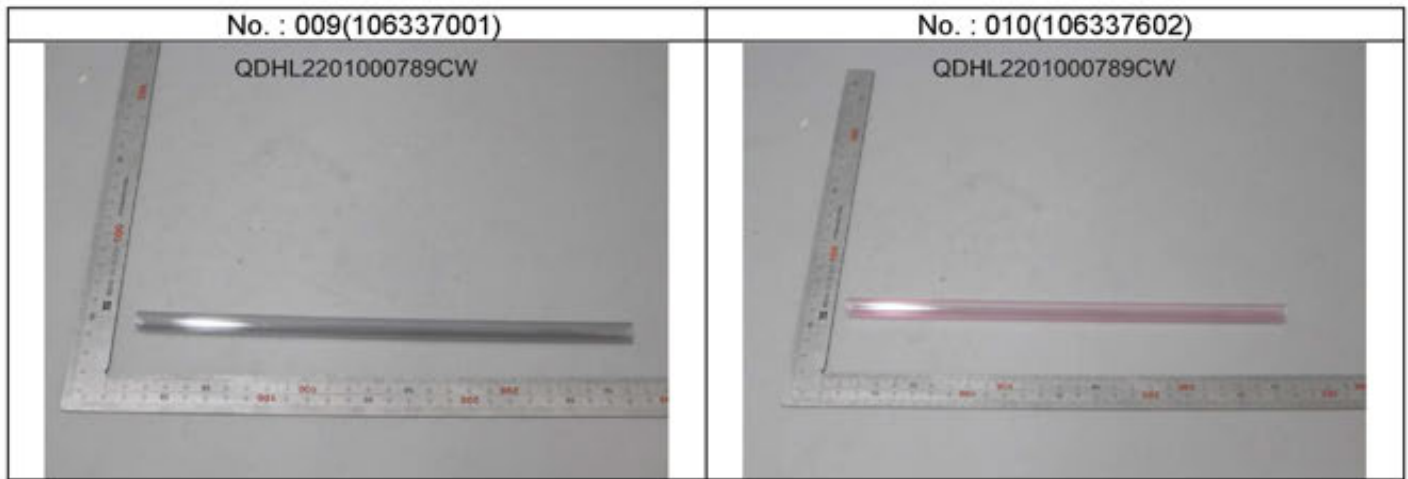
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End of Report



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SINOGLASS HOUSEWARES CO.,LTD.
 26TH FLOOR,EAST TOWER,TRIUMPH PLAZA,
 43 DONG HAI XI ROAD,QINGDAO,P.R.CHINA 266071

The following sample(s) was/were submitted and identified by the client as:

Sample Description : HORIZON TUMBLER, BOTTLE, AND MUG
 SGS Ref. No. : TAOHG2003243101/ TAOHG2003242701/ TAOHG2003240001/
 TAOHG2003240801/ SHAHG2014985001/ TAOHG2003242201 /
 SHAHG2014850001/ SHAHG2014984801/ SHAHG2015636701 /
 TAOHG20003620601/TAOHG2003620001/SHAHG2016460101
 P.O. / Ref. No. : 218590
 Buyer : CAMELBAK PRODUCTS LLC
 Supplier : SINOGLASS HOUSEWARES CO.,LTD
 Manufacturer : SINOGLASS HOUSEWARES CO.,LTD
 Country of Origin : CHINA
 Country of Destination : US
 Sample Receiving Date : AUG.19,2020
 Final Information Date : SEP.02,2020
 Testing Period : AUG.19,2020 TO SEP.02,2020

Test Requested

Result

- | | |
|---|-------------------|
| 1. Italian Decree of Ministry of Health of 21/03/1973 with Amendments, Italian Decree of Ministry 11/11/2013, No 140, Decree 6 August 2015, No. 195- Overall migration | Pass (See Remark) |
| 2. Italian Decree of Ministry of Health of 21/03/1973 with Amendments, Italian Decree of Ministry 11/11/2013, No 140,Decree 6 August 2015, No. 195 - Specific Migration of Nickel, Chromium (III) and Manganese | Pass (See Remark) |
| 3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution CM/Res(2013)9 and BFR recommendation-Extractable heavy metals | Pass (See Remark) |
| 4. EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 -Migration of certain elements (Category III:for scrapped-off toy material) | See Results |
| 5. Commission Regulation (EU) 2018/2005 amending Entry 51 of Annex XVII to Regulation (EC) No 1907/2006-Phthalates | Pass (See Remark) |



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Test Requested

Result

6. Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)- Phthalate	Pass (See Remark)
7. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Overall migration	Pass (See Remark)
8. Council of Europe Resolution AP (2004) 5-Overall migration	Pass (See Remark)
9. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of bisphenol A(BPA)	Pass (See Remark)
10. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments -Specific migration of heavy metal	Pass (See Remark)
11. Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011-Bisphenol A	Pass (See Remark)
12. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of terephthalic acid	Pass (See Remark)
13. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of ethylene glycol	Pass (See Remark)
14. FDA 21 CFR 177.2600- Total extractives	Pass (See Remark)
15. FDA 21 CFR 177.1520- Extractable fraction	Pass (See Remark)
16. FDA 21 CFR 177.1520- Soluble fraction in Xylene	Pass (See Remark)
17. FDA 21 CFR 177.1520- Density at 23°C	Pass (See Remark)
18. US FDA 21 CFR 177.1240–Total extractives	See Results
19. Bisphenol F(BPF), Bisphenol S(BPS)	See Results
20. EN 14350-2:2004-Migration of certain elements	Pass (See Remark)

Remark: - It is requested by applicant, only the selected material(s) in the submitted sample were tested, the detail of tested material(s) is listed in specimen description in the result page(s).
 -Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS-CSTC Standards
 Technical Services (Qingdao)
 Co., Ltd.



Zhou Xinkuan, SK
 Lab Manager



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Appendix

No.	Part No.	Part Description	Material	SGS Sample ID	SGS Description
1	105838101	Lid, Tumbler, 86mm, Clear	PCTG	TAO20-032400.001 TAO20-032408.001	Transparent plastic lid
2	105844001	Slider, Tumbler, 45mm, Long, Black	PP	TAO20-032400.002 TAO20-032408.002 TAO20-032422.001	Black plastic buckle
3	105929001	Gasket, Tumbler, 54mm, Black	Silicone	TAO20-032400.003 TAO20-032408.003 TAO20-032422.002	Black silicone rubber ring + Black silicone rubber pad Black silicone rubber ring
4	105968001	Base Pad, 12oz, 50x6mm, Black	Silicone	TAO20-032400.003	Black silicone rubber ring + Black silicone rubber pad
5	106242101	Oring, Wine Bottle, 41mm, Clear	Silicone	TAO20-036206.004 TAO20-036200.001	Transparent silicone rubber ring
6	105849001	Vessel Assembly, 12oz, Tumbler, Jet/Black	Stainless steel 304	TAO20-032427.001 TAO20-032431.001	Rhodium color stainless steel cup
7	105849001	Vessel Assembly, 12oz, Tumbler, Jet/Black	Powder	TAO20-032400.004	Black coating on cup
8	105849101	Vessel Assy, 12oz, Tumbler, White/White	Powder	TAO20-032400.005	White coating on cup
9	105849401	Vessel Assy, 12oz, Tumbler, Larkspur/Blue (7712U)	Powder	TAO20-036206.001	Blue coating on metal cup
10	105849301	Vessel Assy, 12oz, Tumbler, Moss/Green (5615c)	Powder	TAO20-036206.002	Green coating on metal cup
11	105849601	Vessel Assy, 12oz, Tumbler, Terracotta Rose/Pink(2341C)	Powder	TAO20-036206.003	Pink coating on metal cup



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Test Results:

1. Italian Decree of Ministry of Health of 21/03/1973 with Amendments, Italian Decree of Ministry 11/11/2013, No 140, Decree 6 August 2015, No. 195- Overall migration

Test Method : With reference to Italian Decree of Ministry of Health of 21/03/1973 with amendments. Extractive from 3rd duration was taken for analysis.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 001</u> <u>Overall Migration</u>	<u>Conclusion</u>
3% Acetic Acid (W/V) Aqueous Solution	0.5hr(s)	100°C	8mg/dm ²	<3.0mg/dm ²	PASS

Notes :

(1) Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg.

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material</u> <u>(claimed by the client)</u>
SN1	TAO20-032431.001	Rhodium color stainless steel cup	Stainless steel 304

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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2. Italian Decree of Ministry of Health of 21/03/1973 with Amendments, Italian Decree of Ministry 11/11/2013, No 140, Decree 6 August 2015, No. 195 - Specific Migration of Nickel, Chromium (III) and Manganese

Test Method : With reference to Italian Decree of Ministry of Health of 21/03/1973 with amendments. Analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°C 0.5hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of Nickel	0.1	mg/kg	0.05	ND
Specific migration of Chromium (III) (as Chromium)	0.1	mg/kg	0.05	ND
Specific migration of Manganese	0.1	mg/kg	0.05	ND

Conclusion

PASS

Notes :

- (1) The grade of stainless steel is/ not found in the Table A of Italian Decree of Ministry 11/11/2013, No 140 and the grade information provided by the client

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO20-032431.001	Rhodium color stainless steel cup	Stainless steel 304

Remarks :

- (1) mg/dm² = milligram per square decimeter
 (2) mg/kg = milligram per kilogram
 (3) °C = degree Celsius
 (4) < = less than
 (5) MDL = Method Detection Limit
 (6) ND = Not Detected (< MDL)



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3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution CM/Res(2013)9 and BfR recommendation-Extractable heavy metals

Test Method : With reference to EN13130-1:2004, analysis was performed by by ICP-OES and ICP-MS.

Sample 001:

Simulant Used : 0.5% Citric acid (W/V) aqueous solution

Test Condition : 100°C 24.0hr(s)

Area/volume : 5.6 dm²/kg

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>1st + 2nd Migration</u>
Aluminium(Al)	35	mg/kg	0.2	ND
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	0.48
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Aluminium(Al)	5	mg/kg	0.2	ND
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND



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Test Report

No.: QDHL2008008669CW

Date: SEP.02.2020

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: 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

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO20-032427.001	Rhodium color stainless steel cup	Stainless steel 304

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
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4. EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728 -Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-MS, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND

Notes :

- (1) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.
- (2) The limit(s) is(are) for reference only .

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO20-032400.004	Black coating on cup
SN2	TAO20-032400.005	White coating on cup

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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EN71-3: 2019 as harmonized standard under Directive 2009/48/EC and its amendment (EU) 2019/1728, as specified by clients -Migration of certain elements (Category III: for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-MS, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	302	278	335
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	52	80	61
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	70000	mg/kg	50	ND	207	120
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

- (1) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.
- (2) Mass of trace amount of sample ID 001 is 96.1 mg.
- (3) Results of sample ID 001-003 were updated, all other results were copied from report No. QDHL2007007605CW.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	001(TAO20-036206.001)	Blue coating on metal cup
SN2	002(TAO20-036206.002)	Green coating on metal cup
SN3	003(TAO20-036206.003)	Pink coating on metal cup

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

5. Commission Regulation (EU) 2018/2005 amending Entry 51 of Annex XVII to Regulation (EC) No 1907/2006-Phthalates

Test Method : With reference to EN 14372: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Di-butyl Phthalate (DBP)	0.1	%	0.003	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	0.1	%	0.003	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	0.1	%	0.003	ND	ND	ND
Diisobutyl Phthalates (DIBP)	0.1	%	0.003	ND	ND	ND
Total(DBP+BBP+DEHP+DIBP)	0.1	%	-	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Di-butyl Phthalate (DBP)	0.1	%	0.003	ND
Benzyl Butyl Phthalate (BBP)	0.1	%	0.003	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	0.1	%	0.003	ND
Diisobutyl Phthalates (DIBP)	0.1	%	0.003	ND
Total(DBP+BBP+DEHP+DIBP)	0.1	%	-	ND
Conclusion				PASS



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Notes :

- (1) Test was conducted on composite of random parts of the item as per client's request and the test result(s) is(are) the overall result.
- (2) Results of sample ID 004 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO20-032400.001	Transparent plastic lid
SN2	TAO20-032400.002	Black plastic buckle
SN3	TAO20-032400.003	Black silicone rubber ring + Black silicone rubber pad
SN4	004(TAO20-036206.004)	Transparent silicone rubber ring

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

6. Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)- Phthalate

Test Method : With reference to EN 14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND
Conclusion					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND
Conclusion					PASS



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Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND
Conclusion					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	004
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND
Conclusion					PASS

Notes :

- (1) Test was conducted on composite of random parts of the item as per client's request and the test result(s) is(are) the overall result.
- (2) Results of sample ID 004 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TAO20-032400.001	Transparent plastic lid
SN2	TAO20-032400.002	Black plastic buckle
SN3	TAO20-032400.003	Black silicone rubber ring + Black silicone rubber pad
SN4	004(TAO20-036206.004)	Transparent silicone rubber ring

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated



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7. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments -Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;or EN 1186-3: 2002 aqueous food simulants by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Conclusion</u>
3% Acetic Acid (W/V) Aqueous Solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
20% Ethanol (V/V) Aqueous Solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall Migration</u>	<u>Conclusion</u>
3% Acetic Acid (W/V) Aqueous Solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
20% Ethanol (V/V) Aqueous Solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) Report the third migration result.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO20-032408.001	Transparent plastic lid	PCTG
SN2	TAO20-032408.002	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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8. Council of Europe Resolution AP (2004) 5-Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;or EN 1186-3: 2002 aqueous food simulants by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
20% Ethanol (V/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall Migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
20% Ethanol (V/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) Report the third migration result.
- (5) Results of sample ID 001 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material (claimed by the client)</u>
SN1	001(TAO20-036200.001)	Transparent silicone rubber ring	Silicone rubber
SN2	TAO20-032408.003	Black silicone rubber ring	Silicone rubber

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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9. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of bisphenol A (BPA)

Test Method : With reference to EN 13130-1: 2004, analysis was performed by HPLC-MS.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°C 24.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of Bisphenol-A	0.05	mg/kg	0.01	ND
Conclusion				PASS

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°C 24.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	0.51
Specific migration of Bisphenol-A	0.05	mg/kg	0.01	ND
Conclusion				PASS

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Results of sample ID 001 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material (claimed by the client)</u>
SN1	001(TAO20-036200.001)	Transparent silicone rubber ring	Silicone rubber
SN2	TAO20-032408.003	Black silicone rubber ring	Silicone rubber



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Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

10. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments -Specific migration of heavy metal

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°C 24.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	1.74
Aluminium	1	mg/kg	0.1	ND
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Nickel	0.02	mg/kg	0.01	ND
Zinc	5	mg/kg	0.5	ND
Conclusion				PASS



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Test Report

No.: QDHL2008008669CW

Date: SEP.02,2020

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Sample 002

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 100°C 24.0hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	0.38
Aluminium	1	mg/kg	0.1	ND
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Nickel	0.02	mg/kg	0.01	ND
Zinc	5	mg/kg	0.5	ND

Conclusion

PASS

Notes :

- (1) Test condition & simulant were specified by client.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO20-032408.001	Transparent plastic lid	PCTG
SN2	TAO20-032408.002	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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11. Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011-Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Bisphenol-A	★	mg/kg	0.1	ND	ND
Conclusion				PASS	PASS

Notes :

★ = prohibited

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material (claimed by the client)</u>
SN1	TAO20-032408.001	Transparent plastic lid	PCTG
SN2	TAO20-032408.002	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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12. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of terephthalic acid

Test Method : With reference to EN13130-1: 2004, analysis was performed by LC-DAD.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 100°C 24.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	1.8
Specific migration of terephthalic acid	7.5	mg/kg	1.0	ND
Conclusion				PASS

Notes :

(1) Test condition & simulant were specified by client.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA20-149850.001	Transparent plastic piece	PCTG

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)
- (7) The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
(CMA No. 170900340938; CNAS No. L0599).



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13. Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of ethylene glycol

Test Method : With reference to EN 13130-1: 2004, analysis was performed by GC-FID.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 100°C 24.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	1.8
Specific migration of ethylene glycol	30	mg/kg	3	ND
Conclusion				PASS

Notes :

- (1) Test condition & simulant were specified by client.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA20-149850.001	Transparent plastic piece	PCTG

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)
- (7) The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).



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14. FDA 21 CFR 177.2600- Total extractives

Test Method : With reference to FDA 21 CFR 177.2600.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Total Extractives</u>	<u>Conclusion</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	PASS
Distilled water Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	PASS
n-Hexane	7.0hr(s)	Reflux temperature	175mg/inch ²	5.5mg/inch ²	PASS
n-Hexane Succeeding Extraction	2.0hr(s)	Reflux temperature	4mg/inch ²	<0.5mg/inch ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Total Extractives</u>	<u>Conclusion</u>
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch ²	<0.5mg/inch ²	PASS
Distilled water Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch ²	<0.5mg/inch ²	PASS
n-Hexane	7.0hr(s)	Reflux temperature	175mg/inch ²	10.5mg/inch ²	PASS
n-Hexane Succeeding Extraction	2.0hr(s)	Reflux temperature	4mg/inch ²	0.7mg/inch ²	PASS

Note: Results of sample ID 001 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	001(TAO20-036200.001)	Transparent silicone rubber ring	Silicone rubber
SN2	TAO20-032422.002	Black silicone rubber ring	Silicone rubber

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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15. FDA 21 CFR 177.1520- Extractable fraction

Test Method : With reference to FDA 21 CFR 177.1520 (d)(3)(ii).

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Extractable fraction</u>	<u>Comment</u>
n-Hexane	2hr(s)	50°C	5.5% (w/w)	<0.5% (w/w)	PASS

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material (claimed by the client)</u>
SN1	TAO20-032422.001	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

16. FDA 21 CFR 177.1520- Soluble fraction in Xylene

Test Method : With reference to FDA 21 CFR 177.1520(d)(4)(ii).

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Soluble fraction in Xylene	30	% (w/w)	0.5	15.9
Comment				PASS

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>	<u>Material (claimed by the client)</u>
SN1	TAO20-032422.001	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)



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17. FDA 21 CFR 177.1520- Density at 23°C

Test Method : With reference to FDA 21 CFR 177.1520 d (1).

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Density at 23°C, g/ cm ³	0.85-1.00	0.90
Comment		PASS

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO20-032422.001	Black plastic buckle	PP Copolymer

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

18. US FDA 21 CFR 177.1240–Total extractives

Test Method : As specified in US FDA 21 CFR 177.1240

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Total Extractives</u>
Distilled water	2hr(s)	reflux temperature	0.05%	0.03%
Ethyl acetate	2hr(s)	reflux temperature	0.7%	0.41%
n-Hexane	2hr(s)	reflux temperature	0.05%	<0.01%

Notes :

Limit = Reference limit. The test sample is out of scope of the standard.

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA20-148500.001	Transparent plastic piece	PCTG



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- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)
- (7) The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).

19. Bisphenol F(BPF), Bisphenol S(BPS)

Test Method : Extraction by organic solvent, analysis by HPLC-DAD-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Bisphenol F(BPF)	mg/kg	1	ND	ND
Bisphenol S(BPS)	mg/kg	1	ND	ND

Notes :

- (1) Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.
- (2) Results of sample ID 002 were updated, all other results were copied from report No. QDHL2007007605CW.

Test Part Description :

<u>Specimen No.</u>	<u>SGS Sample ID</u>	<u>Description</u>
SN1	SHA20-149848.001	Black silicone gasket+Black silicone base pad
SN2	002(SHA20-164601.001)	Translucent silicone gasket

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).



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20. EN 14350-2:2004-Migration of certain elements.

Test Method : With reference to EN14350-2: 2004, Clause 5.2.Heavy Element Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Soluble Lead (Pb)	25	mg/kg	5	ND	ND
Soluble Antimony (Sb)	15	mg/kg	5	ND	ND
Soluble Arsenic (As)	10	mg/kg	5	ND	ND
Soluble Barium (Ba)	100	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	20	mg/kg	5	ND	ND
Soluble Chromium (Cr)	10	mg/kg	5	ND	ND
Soluble Mercury (Hg)	10	mg/kg	5	ND	ND
Soluble Selenium (Se)	100	mg/kg	10	ND	ND
Conclusion				PASS	PASS

Notes :

- (1) Results shown are of the adjusted analytical results.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-156367.001	Transparent plastic piece
SN2	SHA20-156367.002	Black plastic piece

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) The test was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CMA No. 170900340938; CNAS No. L0599).



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Sample Photo:

No. : 001(105838101)



No. : 002(105844001)



No. : 003(105929001)



No. : 004(105968001)



No. : 005(106242101)



No. : 006(105849001)



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