

Test Report

Report No. : AGC05443221102-001

SAMPLE NAME : Aluminium bottle with ABS lid with silicone grip

MODEL NAME : MO6895

APPLICANT: MID OCEAN BRANDS B.V

STANDARD(S) : Please refer to the following page(s).

DATE OF ISSUE: Nov.16, 2022

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Page 1 of 24

Applicant : MID OCEAN BRANDS B.V

Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng

Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Aluminium bottle with ABS lid with silicone grip

Model : MO6895

Vendor code : 114276

Country of origin : CHINA

Country of destination : EUROPE

Sample Received Date : Nov.01, 2022

Testing Period : Nov.01, 2022 to Nov.16, 2022

Test Requested : Selected test(s) as requested by client.

Approved by: Jossie Liang

Liangdan, Jessie.Liang

Technical Director



Page 2 of 24

Report Revise Record

| Report Version | Issued Date | Valid Version | Notes | |
|----------------|--------------|---------------|-----------------|--|
| / | Nov.16, 2022 | Valid | Initial release | |



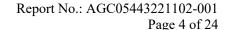
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Page 3 of 24

| Test | t Requested: | Conclusion |
|------|---|------------|
| 1. | Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 - Phthalates Content | Pass |
| 2. | Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 -Polycyclic-aromatic Hydrocarbons (PAHs) Content | Pass |
| 3. | Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23 -Cadmium(Cd) Content | Pass |
| 4. | Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63 - Lead(Pb) Content | Pass |
| 5. | As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 for ABS: | |
| | - Overall Migration (3% Acetic acid, 50% ethanol) | Pass |
| | - Specific migration of Acrylonitrile | Pass |
| | - Bisphenol A(BPA) content | Pass |
| | - Specific Migration of Aromatic Amines | Pass |
| | - Specific Migration of Heavy metals | Pass |
| 6. | As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 for PP: | |
| | - Overall Migration (3% Acetic acid, 50% ethanol) | Pass |
| | - Bisphenol A(BPA) content | Pass |
| | - Specific Migration of Aromatic Amines | Pass |
| | - Specific Migration of Heavy metals | Pass |
| 7. | As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone: | |
| | - Overall Migration (3% Acetic acid, 50% ethanol) | Pass |
| | - Specific migration of Bisphenol A(BPA) | Pass |
| | - Bisphenol A(BPA) content | Pass |
| 8. | As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442. | |
| | -Peroxide value | Pass |
| | -Volatile Organic Matter | Pass |
| | -Specific Migration of Organotin (measured as Tin) | Pass |
| 9. | As specified by client, to test sample with reference to food for compliance with | |
| | Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food | |
| | contact materials of Council of Europe Resolution CM/Res(2013)9. for metal: | |
| | - Extractable heavy metal | Pass |
| | | |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

10. As specified by client, to determined for mechanical dishwashing safe test.





The photo of the sample



The photo of AGC05443221102-001 is for use only with the original report.

Test Point Description

| Test point | Test point description |
|------------|--|
| 1 | Aluminium bottle with ABS lid with silicone grip |
| 1-1 | Lid in ABS black |
| 1-2 | Lid in ABS white |
| 1-3 | Silicone ring |
| 1-4 | Black silicone handle |
| 1-5 | White silicone handle |
| 1-6 | Bottle top part in black color PP |
| 1-7 | Bottle inner part in silver aluminum |
| 1-8 | Black coating |
| 1-9 | White coating |



Page 5 of 24

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit %= percentage (W/W)

1.Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Test Methods and Equipment: EN 14372:2004; GC-MS

| Test Item(s) | I Init | Unit Limit | | Test Result(s) | | | |
|--|--------|------------|------|----------------|------------|------------|--|
| Test Item(s) | Unit | Liiiiit | MDL | 1-1 | 1-2 | 1-3 | |
| Diisobutyl phthalate (DIBP) CAS:84-69-5 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Dibutyl phthalate (DBP) CAS:84-74-2 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Butylbenzyl phthalate (BBP) CAS:85-68-7 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Di-n-octyl phthalate (DNOP) CAS:117-84-0 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Sum of DIBP +DBP+BBP+DEHP | % | 0.1 | / | N.D. | N.D. | N.D. | |
| Sum of DNOP+DINP+DIDP | % | 0.1 | / | N.D. | N.D. | N.D. | |
| Conclusio | n | | | Conformity | Conformity | Conformity | |

| Tost Itam(s) | Unit | Limit | MDL | Test Result(s) | | | |
|--|------|---------|------|----------------|------------|------------|--|
| Test Item(s) | Unit | Liiiiit | MIDL | 1-4 | 1-5 | 1-6 | |
| Diisobutyl phthalate (DIBP) CAS:84-69-5 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Dibutyl phthalate (DBP) CAS:84-74-2 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Butylbenzyl phthalate (BBP) CAS:85-68-7 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7 | % | 0.1 | 0.01 | N.D. | N.D. | N.D. | |
| Di-n-octyl phthalate (DNOP) CAS:117-84-0 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1 | % | / | 0.01 | N.D. | N.D. | N.D. | |
| Sum of DIBP +DBP+BBP+DEHP | % | 0.1 | / | N.D. | N.D. | N.D. | |
| Sum of DNOP+DINP+DIDP | % | 0.1 | / | N.D. | N.D. | N.D. | |
| Conclusio | n | | | Conformity | Conformity | Conformity | |



Report No.: AGC05443221102-001 Page 6 of 24

Limit requirements of Annex XVII of the REACH Regulation (EC) No 1907/2006

| Toys and childcare articles | Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1% |
|--|--|
| Toys and childcare articles which can be placed in the mouth by children | DINP, DIDP, DNOP each less than 0.1% |

2.Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

-Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

| Test Item(s) | Unit Limit | | MDL | Test Result(s) | | | |
|-----------------------------|------------|--------|------|----------------|------|------|--|
| Test Item(s) | Omi | LIIIII | MIDL | 1-1 | 1-2 | 1-3 | |
| Benzo[a]pyrene(BaP) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[e]pyrene(BeP) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[a]anthracene(BaA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[b]fluoranthene(BbF) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[j]fluoranthene(BjFA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[k]fluoranthene(BkF) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Chrysene(CHR) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Conclus | Conclusion | | | | | | |

| Tost Itom(s) | Unit Limit | | MDL | Test Result(s) | | | |
|-----------------------------|------------|--------|------|----------------|------|------|--|
| Test Item(s) | Unit | LIIIII | MIDL | 1-4 | 1-5 | 1-6 | |
| Benzo[a]pyrene(BaP) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[e]pyrene(BeP) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[a]anthracene(BaA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[b]fluoranthene(BbF) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[j]fluoranthene(BjFA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Benzo[k]fluoranthene(BkF) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Chrysene(CHR) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1 | 0.1 | N.D. | N.D. | N.D. | |
| Conclus | Conclusion | | | | | | |



Report No.: AGC05443221102-001 Page 7 of 24

Limit requirements of Annex XVII of the REACH Regulation (EC) No 1907/2006(Unit: mg/kg)

| Items | CAS No. | Extender oils or used for the production of tyres or parts of tyres | Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity | Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity |
|---|----------|---|--|---|
| Benzo[a]pyrene(BaP) | 50-32-8 | ≤ 1 | ≤ 1 | ≤ 0.5 |
| Benzo[e]pyrene(BeP) | 192-97-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[a]anthracene(BaA) | 56-55-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[b]fluoranthene(BbF) | 205-99-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[j]fluoranthene(BjFA) | 205-82-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[k]fluoranthene(BkF) | 207-08-9 | / | ≤ 1 | ≤ 0.5 |
| Chrysene(CHR) | 218-01-9 | / | ≤ 1 | ≤ 0.5 |
| Dibenzo[a,h]anthracene(DBA) | 53-70-3 | / | ≤ 1 | ≤ 0.5 |
| Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA | / | ≤ 10 | / | / |

3.Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Tost Itam(s) | Unit | Limit | MDL | Test Result(s) | | | |
|--------------|------------|------------|------------|----------------|------|------|--|
| Test Item(s) | Unit | Lillit | | 1-1 | 1-2 | 1-3 | |
| Cadmium(Cd) | mg/kg | 100 | 10 | N.D. | N.D. | N.D. | |
| | Conformity | Conformity | Conformity | | | | |

| Tast Itam(s) | Unit | Limit | MDL | Test Result(s) | | | |
|--------------|-------|--------|-----|----------------|------------|------------|--|
| Test Item(s) | Unit | LIIIII | | 1-4 | 1-5 | 1-6 | |
| Cadmium(Cd) | mg/kg | 100 | 10 | N.D. | N.D. | N.D. | |
| Conclusion | | | | Conformity | Conformity | Conformity | |



Page 8 of 24

4.Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | | | |
|--------------|------------|--------|------|----------------|------------|------------|--|
| rest item(s) | Unit | LIIIII | MIDL | 1-1 | 1-2 | 1-3 | |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. | N.D. | |
| | Conclusion | | | Conformity | Conformity | Conformity | |

| Test Item(s) | Unit | Limit MDI | | Limit MDL Test Result(s) | | | |
|--------------|-------|-----------|------|--------------------------|------------|------------|--|
| Test Item(s) | Unit | Limit | MIDL | 1-4 | 1-5 | 1-6 | |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. | N.D. | |
| Conclusion | | | | Conformity | Conformity | Conformity | |

| Test Item(s) | Unit | Limit MDL | | Test Result(s) | | |
|--------------|-------|-----------|------|----------------|------------|------------|
| rest item(s) | Unit | Limit | MIDL | 1-7 | 1-8 | 1-9 |
| Lead(Pb) | mg/kg | 500 | 10 | 13 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity | Conformity |

5.1 Test Result(s) of Overall Migration

Unit: mg/dm²

| Test Solution | Test condition | MDL | | 1-1 | | | |
|----------------|-----------------|-----|-----------------------------|-----------------------------|--------------------------------|-------|--|
| Test solution | 1 cst condition | | 1 st extractives | 2 nd extractives | 3 rd extractives | Limit | |
| 3% Acetic acid | 70°C, 2h | 5 | N.D. | N.D. | N.D. | 10 | |
| 50% Ethanol | | 5 | N.D. | N.D. | N.D. | 10 | |
| Conclusion | / | / | | Conformity | | / | |

Unit: mg/dm²

| Test Solution | Test condition | MDL | | | Limit | |
|----------------|-----------------|-----|-----------------------------|-----------------------------|--------------------------------|----|
| | 1 cst condition | | 1 st extractives | 2 nd extractives | 3 rd extractives | |
| 3% Acetic acid | 70°C, 2h | 5 | N.D. | N.D. | N.D. | 10 |
| 50% Ethanol | | 5 | N.D. | N.D. | N.D. | 10 |
| Conclusion | / | / | | Conformity | | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



5.2 Test result of migration of Acrylonitrile

Report No.: AGC05443221102-001 Page 9 of 24

Unit: mg/kg

| | | | Resu | | |
|----------------------------|------------------------------|------|------------|------------|--------|
| Test Item(s) | Test condition/ Equipment | MDL | 3%Ace | Limit | |
| | Equipment | | 1-1 | 1-2 | |
| Migration of Acrylonitrile | 70°C, 2h / GC-NPD | 0.01 | N.D. | N.D. | Absent |
| Conclusion | / | / | Conformity | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

5.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

| Took Itom(s) | Test Method/ | | Resu | Limit | | |
|--------------------------|--|-----|------------|------------|--------|--|
| Test Item(s) | Equipment | MDL | 1-1 | 1-2 | Limit | |
| Bisphenol A(BPA) content | EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS | 1 | N.D. | N.D. | Absent | |
| Conclusion | / | / | Conformity | Conformity | / | |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

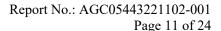
Test result on specimen No.1-1 was resubmitted on Nov.10, 2022.



5.4 Specific migration of Primary aromatic amines

Report No.: AGC05443221102-001 Page 10 of 24

| Test Item(s) | MDL (mg/kg) | Limit (mg/kg) |
|--|----------------|------------------|
| 4-Aminobiphenyl | 0.002 | N.D. |
| Benzidine | 0.002 | N.D. |
| 4-Chloro-o-Toluidine | 0.002 | N.D. |
| 2-Naphthylamine | 0.002 | N.D. |
| 4-amino-2',3-dimethylazobenzene | 0.002 | N.D. |
| 5-Nitro-o-toluidine | 0.002 | N.D. |
| 4-Chloroaniline | 0.002 | N.D. |
| 4-Methoxy-m-phenylenediamine | 0.002 | N.D. |
| 4,4'-Diaminodiphenylmethane | 0.002 | N.D. |
| 3,3'-Dichlorobenzidine | 0.002 | N.D. |
| 3,3'-Dimethoxybenzidine | 0.002 | N.D. |
| 3,3'-Dimethybenzidine | 0.002 | N.D. |
| 4,4'-Methylenedi-o-toluidine | 0.002 | N.D. |
| 6-methoxy-m-toluidine | 0.002 | N.D. |
| 4,4'-methylenebis[2-chloroaniline] | 0.002 | N.D. |
| 4,4'-Oxydianiline | 0.002 | N.D. |
| 4,4'-Thiodianiline | 0.002 | N.D. |
| 2-Aminotoluene | 0.002 | N.D. |
| 4-methyl-m-phenylenediamine | 0.002 | N.D. |
| 2,4,5-Trimethylaniline | 0.002 | N.D. |
| 2-Methoxyaniline | 0.002 | N.D. |
| 4-Aminoazobenzene | 0.002 | N.D. |
| 1,3 phenylenediamine | 0.002 | N.D. |
| Total of other primary aromatic amines | 0.01 | 0.01 |





Test Result(mg/kg) 1-2 1-1 Test Item(s) 3% Acetic acid 3% Acetic acid 70°C, 2h 70°C, 2h N.D. N.D. 4-Aminobiphenyl Benzidine N.D. N.D. 4-Chloro-o-Toluidine N.D. N.D. 2-Naphthylamine N.D. N.D. 4-amino-2',3-dimethylazobenzene N.D. N.D. 5-Nitro-o-toluidine N.D. N.D. 4-Chloroaniline N.D. N.D. 4-Methoxy-m-phenylenediamine N.D. N.D. 4,4'-Diaminodiphenylmethane N.D. N.D. 3,3'-Dichlorobenzidine N.D. N.D. 3,3'-Dimethoxybenzidine N.D. N.D. 3,3'-Dimethybenzidine N.D. N.D. 4,4'-Methylenedi-o-toluidine N.D. N.D. 6-methoxy-m-toluidine N.D. N.D. 4,4'-methylenebis[2-chloroaniline] N.D. N.D. 4,4'-Oxydianiline N.D. N.D. 4,4'-Thiodianiline N.D. N.D. 2-Aminotoluene N.D. N.D. 4-methyl-m-phenylenediamine N.D. N.D. 2,4,5-Trimethylaniline N.D. N.D. 2-Methoxyaniline N.D. N.D. N.D. N.D. 4-Aminoazobenzene 1,3 phenylenediamine N.D. N.D. Total of other primary aromatic N.D. N.D. amines Conclusion **Conformity** Conformity

Note: -MDL=method detection limit

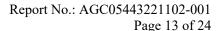
-N.D.=not detected (less than method detection limit)



5.5 Test Result(s) of Migration of Heavy metals

Report No.: AGC05443221102-001 Page 12 of 24

| Test Item(s) | Test condition/ | MDL | | Limit | | |
|--|------------------------------|---------|-----------------|-----------------|-------------|------|
| rest rtem(s) | Equipment | (mg/kg) | 1 st | 3 rd | (mg/kg) | |
| | | | extractives | extractives | extractives | |
| Barium (Ba) | | 0.1 | N.D. | N.D. | N.D. | 1 |
| Cobalt (Co) | | 0.01 | N.D. | N.D. | N.D. | 0.05 |
| Copper (Cu) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Iron (Fe) | | 0.25 | N.D. | N.D. | N.D. | 48 |
| Lithium (Li) | | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Manganese (Mn) | | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Zinc (Zn) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Aluminum (Al) | | 0.1 | N.D. | N.D. | N.D. | 1 |
| Europium (Eu) | | 0.01 | N.D. | N.D. | N.D. | / |
| Gadolinium (Gd) | | 0.01 | N.D. | N.D. | N.D. | / |
| Lanthanum (La) | | 0.01 | N.D. | N.D. | N.D. | / |
| Terbium (Tb) | | 0.01 | N.D. | N.D. | N.D. | / |
| Sum(Eu+Gd+La+Tb) | 3% Acetic acid/ 70°C, 2h/ | / | N.D. | N.D. | N.D. | 0.05 |
| Antimony (Sb) | ICP-OES/ IC | 0.01 | N.D. | N.D. | N.D. | 0.04 |
| Arsenic (As) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Cadmium (Cd) | | 0.002 | N.D. | N.D. | N.D. | N.D. |
| Chromium (Cr) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Nickel (Ni) | | 0.01 | N.D. | N.D. | N.D. | 0.02 |
| Conclusion | | / | | Conformity | | / |
| Ammonium (NH ₄ ⁺) | | 0.10 | N.D. | N.D. | N.D. | / |
| Calcium (Ca) | | 0.01 | 4.408 | 1.801 | 1.641 | / |
| Magnesium (Mg) | | 0.01 | 0.090 | 0.027 | 0.014 | / |
| Potassium (K) | | 0.01 | 0.048 | 0.013 | N.D. | / |
| Sodium (Na) | | 0.01 | 0.208 | 0.108 | 0.059 | / |





Test Result(s) (mg/kg) **Test condition/** MDL Limit Test Item(s) 1-2 **Equipment** (mg/kg) (mg/kg) 1st 2nd 3rd extractives extractives extractives Barium (Ba) 0.1 N.D. N.D. N.D. 1 0.05 Cobalt (Co) 0.01 N.D. N.D. N.D. 0.25 N.D. N.D. N.D. 5 Copper (Cu) Iron (Fe) 0.25 N.D. N.D. N.D. 48 Lithium (Li) 0.1 N.D. N.D. N.D. 0.6 Manganese (Mn) 0.1 N.D. N.D. N.D. 0.6 Zinc (Zn) 0.25 N.D. N.D. N.D. 5 Aluminum (Al) 0.1 N.D. N.D. N.D. 1 Europium (Eu) 0.01 N.D. N.D. N.D. Gadolinium (Gd) 0.01 N.D. N.D. N.D. Lanthanum (La) 0.01 N.D. N.D. N.D. Terbium (Tb) 0.01 N.D. N.D. N.D. / 3% Acetic acid/ Sum(Eu+Gd+La+Tb) / N.D. N.D. N.D. 0.05 70°C, 2h/ ICP-OES/IC Antimony (Sb) 0.01 N.D. N.D. N.D. 0.04 0.01 N.D. N.D. N.D. Arsenic (As) N.D. Cadmium (Cd) 0.002 N.D. N.D. N.D. N.D. 0.01 N.D. N.D. Chromium (Cr) N.D. N.D. 0.01 N.D. N.D. N.D. N.D. Lead (Pb) Mercury (Hg) 0.01 N.D. N.D. N.D. N.D. Nickel (Ni) 0.01 N.D. N.D. N.D. 0.02 Conclusion Conformity / Ammonium (NH₄⁺) N.D. 0.10 N.D. N.D. Calcium (Ca) 0.01 0.329 0.163 N.D. Magnesium (Mg) 0.01 0.023 N.D. N.D. Potassium (K) 0.01 0.048 N.D. N.D. / 0.01 Sodium (Na) 0.186 0.187 0.106

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



Page 14 of 24

Unit: mg/dm²

| Test Solution | Test condition | MDL | | 1-6 | | Limit |
|----------------|-----------------|---------|-----------------------------|-----------------------------|--------------------------------|-------|
| Test solution | 1 cst condition | , , , , | 1 st extractives | 2 nd extractives | 3 rd extractives | 2 |
| 3% Acetic acid | 70°C, 2h | 5 | N.D. | N.D. | N.D. | 10 |
| 50% Ethanol | | 5 | N.D. | N.D. | N.D. | 10 |
| Conclusion | / | / | | Conformity | | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

6.2 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) 1-6 | Limit |
|--------------------------|--|-----|---------------|--------|
| Bisphenol A(BPA) content | EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS | 1 | N.D. | Absent |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit

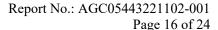
-N.D.=not detected (less than method detection limit)



6.3 Specific migration of Primary aromatic amines

Report No.: AGC05443221102-001 Page 15 of 24

| Test Item(s) | MDL (mg/kg) | Limit (mg/kg) |
|--|----------------|------------------|
| 4-Aminobiphenyl | 0.002 | N.D. |
| Benzidine | 0.002 | N.D. |
| 4-Chloro-o-Toluidine | 0.002 | N.D. |
| 2-Naphthylamine | 0.002 | N.D. |
| 4-amino-2',3-dimethylazobenzene | 0.002 | N.D. |
| 5-Nitro-o-toluidine | 0.002 | N.D. |
| 4-Chloroaniline | 0.002 | N.D. |
| 4-Methoxy-m-phenylenediamine | 0.002 | N.D. |
| 4,4'-Diaminodiphenylmethane | 0.002 | N.D. |
| 3,3'-Dichlorobenzidine | 0.002 | N.D. |
| 3,3'-Dimethoxybenzidine | 0.002 | N.D. |
| 3,3'-Dimethybenzidine | 0.002 | N.D. |
| 4,4'-Methylenedi-o-toluidine | 0.002 | N.D. |
| 6-methoxy-m-toluidine | 0.002 | N.D. |
| 4,4'-methylenebis[2-chloroaniline] | 0.002 | N.D. |
| 4,4'-Oxydianiline | 0.002 | N.D. |
| 4,4'-Thiodianiline | 0.002 | N.D. |
| 2-Aminotoluene | 0.002 | N.D. |
| 4-methyl-m-phenylenediamine | 0.002 | N.D. |
| 2,4,5-Trimethylaniline | 0.002 | N.D. |
| 2-Methoxyaniline | 0.002 | N.D. |
| 4-Aminoazobenzene | 0.002 | N.D. |
| 1,3 phenylenediamine | 0.002 | N.D. |
| Total of other primary aromatic amines | 0.01 | 0.01 |





| | 1 agc 10 01 24 |
|--|--------------------|
| | Test Result(mg/kg) |
| Test Item(s) | 1-6 |
| | 3% Acetic acid |
| 4 Auriantistanud | 70°C, 2h N.D. |
| 4-Aminobiphenyl Benzidine | N.D. |
| | |
| 4-Chloro-o-Toluidine | N.D. |
| 2-Naphthylamine | N.D. |
| 4-amino-2',3-dimethylazobenzene | N.D. |
| 5-Nitro-o-toluidine | N.D. |
| 4-Chloroaniline | N.D. |
| 4-Methoxy-m-phenylenediamine | N.D. |
| 4,4'-Diaminodiphenylmethane | N.D. |
| 3,3'-Dichlorobenzidine | N.D. |
| 3,3'-Dimethoxybenzidine | N.D. |
| 3,3'-Dimethybenzidine | N.D. |
| 4,4'-Methylenedi-o-toluidine | N.D. |
| 6-methoxy-m-toluidine | N.D. |
| 4,4'-methylenebis[2-chloroaniline] | N.D. |
| 4,4'-Oxydianiline | N.D. |
| 4,4'-Thiodianiline | N.D. |
| 2-Aminotoluene | N.D. |
| 4-methyl-m-phenylenediamine | N.D. |
| 2,4,5-Trimethylaniline | N.D. |
| 2-Methoxyaniline | N.D. |
| 4-Aminoazobenzene | N.D. |
| 1,3 phenylenediamine | N.D. |
| Total of other primary aromatic amines | N.D. |
| Conclusion | Conformity |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



6.4 Test Result(s) of Migration of Heavy metals

Report No.: AGC05443221102-001 Page 17 of 24

| Test Item(s) | Test condition/ | MDL | | Limit | | |
|--|------------------------------|---------|-----------------------------|---------------------------------------|-----------------------------|---------|
| Test Item(s) | Equipment | (mg/kg) | 1 st extractives | 1-6 2 nd extractives | 3 rd extractives | (mg/kg) |
| Barium (Ba) | | 0.1 | N.D. | N.D. | N.D. | 1 |
| Cobalt (Co) | | 0.01 | N.D. | N.D. | N.D. | 0.05 |
| Copper (Cu) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Iron (Fe) | | 0.25 | N.D. | N.D. | N.D. | 48 |
| Lithium (Li) | | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Manganese (Mn) | - | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Zinc (Zn) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Aluminum (Al) | | 0.1 | N.D. | N.D. | N.D. | 1 |
| Europium (Eu) | - | 0.01 | N.D. | N.D. | N.D. | / |
| Gadolinium (Gd) | - | 0.01 | N.D. | N.D. | N.D. | / |
| Lanthanum (La) | | 0.01 | N.D. | N.D. | N.D. | / |
| Terbium (Tb) | | 0.01 | N.D. | N.D. | N.D. | / |
| Sum(Eu+Gd+La+Tb) | 3% Acetic acid/ 70°C, 2h/ | / | N.D. | N.D. | N.D. | 0.05 |
| Antimony (Sb) | ICP-OES/ IC | 0.01 | N.D. | N.D. | N.D. | 0.04 |
| Arsenic (As) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Cadmium (Cd) | - | 0.002 | N.D. | N.D. | N.D. | N.D. |
| Chromium (Cr) | - | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | - | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Nickel (Ni) | | 0.01 | N.D. | N.D. | N.D. | 0.02 |
| Conclusion | | / | | Conformity | | / |
| Ammonium (NH ₄ ⁺) | | 0.10 | N.D. | N.D. | N.D. | / |
| Calcium (Ca) | | 0.01 | 0.281 | 2.017 | 1.332 | / |
| Magnesium (Mg) | | 0.01 | 0.012 | N.D. | N.D. | / |
| Potassium (K) | | 0.01 | 0.037 | N.D. | N.D. | / |
| Sodium (Na) | | 0.01 | 0.038 | 0.016 | 0.013 | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



7.1 Test Result(s) of Overall Migration

Report No.: AGC05443221102-001 Page 18 of 24

Unit: mg/dm²

| Test Solution | Test condition | MDL | Test Result(s) | Limit |
|-----------------|-------------------|--------|----------------|--------|
| 1000 ~ 01401011 | 1 000 00114110101 | 1,12,2 | 1-3 | 233334 |
| 3% Acetic acid | 7000 21 | 5 | N.D. | 10 |
| 50% Ethanol | 70°C, 2h | 5 | N.D. | 10 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

7.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) 1-3 | Limit |
|---|--|------|--------------------|-------|
| Specific migration of Bisphenol A(BPA) | 3% Acetic acid 70°C, 2h / LC-MS-MS | 0.02 | N.D. | 0.05 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

7.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

| | | | Result(s) | Limit |
|--------------------------|--|-----|------------|-------------------------------|
| Test Item(s) | Test Method/ Equipment | MDL | 1-3 | (Client's Requirement) |
| Bisphenol A(BPA) content | EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS | 1 | N.D. | Absent |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



8.1 Test Result(s) of Peroxide value

Report No.: AGC05443221102-001 Page 19 of 24

Unit: %

| Test Item | MDL | Result(s) 1-3 | Limit |
|----------------|-----|---------------|--------|
| Peroxide value | 0.2 | Absent | Absent |
| Conclusion | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

8.2 Test result of Volatile Organic Matter

Unit: %

| Test item(s) | Test Condition | MDL | Result(s) | Limit |
|-------------------------|----------------|-----|------------|-------|
| Volatile Organic Matter | 200°C, 4h | 0.1 | 0.16 | 0.5 |
| Conclusion | 200 C, 411 | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

-0.1% = 1000 mg/kg

8.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) 1-3 | Limit |
|--|---|------|--------------------|-------|
| Specific Migration of Organotin (measured as Tin) | 3% Acetic acid 70°C, 2h / ICP-OES | 0.01 | N.D. | 0.1 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



Page 20 of 24

Unit: mg/kg

| | | | Test Result(s) | |
|-----------------|------------------------------|--------|---|--------|
| Test Item(s) | Test condition/ Equipment | MDL | 1 st + 2 nd extractives | Limit |
| | Equipment | | 1-7 | |
| Barium (Ba) | | 0.1 | N.D. | 8.4 |
| Copper (Cu) | | 0.1 | N.D. | 28 |
| Iron (Fe) | | 0.1 | N.D. | 280 |
| Tin (Sn) | | 0.1 | N.D. | 700 |
| Chromium (Cr) | | 0.01 | N.D. | 1.75 |
| Manganese (Mn) | | 0.1 | N.D. | 12.6 |
| Zinc (Zn) | | 0.1 | N.D. | 35 |
| Aluminum (Al) | | 0.1 | N.D. | 35 |
| Lithium (Li) | | 0.01 | N.D. | 0.336 |
| Beryllium (Be) | | 0.005 | N.D. | 0.07 |
| Vanadium (V) | Artificial tap water / | 0.005 | N.D. | 0.07 |
| Nickel (Ni) | 70°C, 2h ICP-OES | 0.01 | 0.021 | 0.98 |
| Cobalt (Co) | | 0.01 | N.D. | 0.14 |
| Arsenic (As) | | 0.002 | N.D. | 0.014 |
| Molybdenum (Mo) | | 0.01 | N.D. | 0.84 |
| Silver (Ag) | | 0.01 | N.D. | 0.56 |
| Cadmium (Cd) | | 0.002 | N.D. | 0.035 |
| Antimony (Sb) | | 0.01 | N.D. | 0.28 |
| Mercury (Hg) | | 0.002 | N.D. | 0.021 |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0007 |
| Lead (Pb) | | 0.01 | N.D. | 0.07 |
| Conclusion | | / | Conformity | / |



Report No.: AGC05443221102-001 Page 21 of 24

Unit: mg/kg

| | | | Test Result(s) | Unit: mg/k |
|-----------------|------------------------------|--------|-----------------------------|------------|
| Test Item(s) | Test condition/ Equipment | MDL | 3 rd extractives | Limit |
| | Equipment | | 1-7 | |
| Barium (Ba) | | 0.1 | N.D. | 1.2 |
| Copper (Cu) | | 0.1 | N.D. | 4 |
| Iron (Fe) | | 0.1 | N.D. | 40 |
| Tin (Sn) | | 0.1 | N.D. | 100 |
| Chromium (Cr) | | 0.01 | N.D. | 0.25 |
| Manganese (Mn) | | 0.1 | N.D. | 1.8 |
| Zinc (Zn) | | 0.1 | N.D. | 5 |
| Aluminum (Al) | | 0.1 | N.D. | 5 |
| Lithium (Li) | | 0.01 | N.D. | 0.048 |
| Beryllium (Be) | | 0.005 | N.D. | 0.01 |
| Vanadium (V) | Artificial tap water / | 0.005 | N.D. | 0.01 |
| Nickel (Ni) | 70°C, 2h ICP-OES | 0.01 | N.D. | 0.14 |
| Cobalt (Co) | | 0.01 | N.D. | 0.02 |
| Arsenic (As) | | 0.002 | N.D. | 0.002 |
| Molybdenum (Mo) | | 0.01 | N.D. | 0.12 |
| Silver (Ag) | | 0.01 | N.D. | 0.08 |
| Cadmium (Cd) | | 0.002 | N.D. | 0.005 |
| Antimony (Sb) | | 0.01 | N.D. | 0.04 |
| Mercury (Hg) | | 0.002 | N.D. | 0.003 |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0001 |
| Lead (Pb) | | 0.01 | N.D. | 0.01 |
| Conclusion | | / | Conformity | / |

Note: -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



Page 22 of 24

10. Test Result of mechanical dishwashing safe test:

Sample: Aluminium bottle with ABS lid with silicone grip(Black)

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s). Number of control sample: 1(One) pc(s).

For all tested plastic or metal articles:

1) No visible change of color, gloss and clouding was found on the tested samples after wash.

2) No visible deposit or iridescent layer was found on the tested samples after wash.

No visible swelling, deformation, cracking, crazing or delaminate on was found on the tested samples

after wash.

Sample: Aluminium bottle with ABS lid with silicone grip(White)

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s). Number of control sample: 1(One) pc(s).

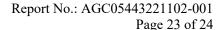
For all tested plastic or metal articles:

1) No visible change of color, gloss and clouding was found on the tested samples after wash.

2) No visible deposit or iridescent layer was found on the tested samples after wash.

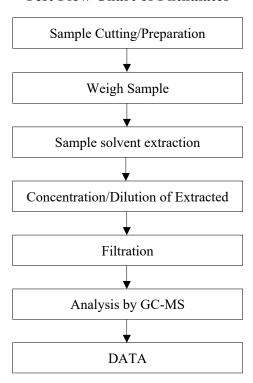
No visible swelling, deformation, cracking, crazing or delaminate on was found on the tested samples

⁽⁾ after wash.

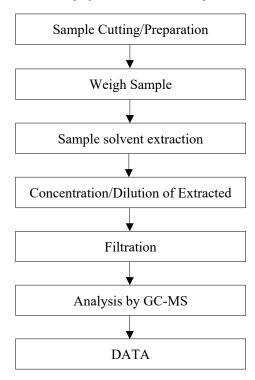


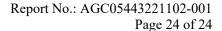


Test Flow Chart of Phthalates



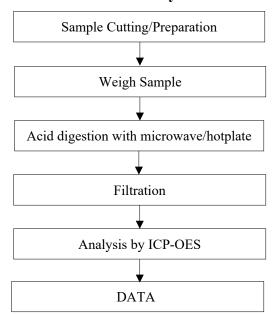
Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)







Test Flow Chart of Heavy Metal Content





Conditions of Issuance of Test Reports

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- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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*** End of Report ***