# TEST REPORT



**Applicant:** Mid Ocean Brands B.V.

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

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

**Sample Name:** Glass bottle in pouch

**Model/Style/Item #:** MO6192

**Vendor Code:** 107978

**Receiving Date:** 16-Oct-2024, 31-Oct-2024, 11-Nov-2024

**Test Period:** From 16-Oct-2024 to 12-Nov-2024

**Add Information:** -

## Test Summary:

| # | Test Item(s) | Reference Standard/Method | Result |
|---|---|---|---|
| 1 | Polycyclic-aromatic hydrocarbons (PAHs) content-Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 | AfPS-GS-2019-01:PAK, determined by GC-MS | **PASS** |
| 2 | Phthalate content（DIBP、DEHP、DBP、BBP、DINP、DIDP 、DNOP） -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. | EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS | **PASS** |
| 3 | Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 | IEC 62321-5:2013, determined by AAS | **PASS** |
| 4 | Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 | IEC 62321-5:2013, determined by AAS | **PASS** |
| 5 | Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013 | ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC | **PASS** |
| 6 | Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) | BS EN 12875-1:2005 | **PASS** |
| 7 | Colour Fastness to Rubbing-Client's requirement | ISO 105-X12:2016 | **PASS** |

**********Please refer to the following page for detailed results**********

Signed for and on behalf of STS

Tim Qi
(Technical Director)

GUANGZHOU DEPUHUA TEST SERVICES CO., LTD
TESTING SERVICES

| # | Test Item(s) | Reference Standard/Method | Result |
|---|---|---|---|
| **Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material** | | | |
| 8 | Overall migration | EN 1186-1:2002 & EN 1186-3:2022 | **PASS** |
| 9 | Bisphenol A Contents | In-house Method, determined by LC-MS-MS | **PASS** |
| 10 | Specific migration of Bisphenol A (BPA) | DD CEN/TS 13130-13:2005, determined by LC-MS-MS | **PASS** |
| **French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material** | | | |
| 11 | Overall migration | EN 1186-1:2002 & EN 1186-3:2022 | **PASS** |
| 12 | Peroxide Value | Europe pharmacopoeia,9.0 chapter 2.5.5. | **PASS** |
| 13 | Specific migration of Organotin (as Tin) | EN 13130-1: 2004, determined by ICP-OES | **PASS** |
| 14 | Volatile organic matter | French Arrêté du Novembre 1992 Annex III. | **PASS** |
| 15 | Bisphenol A Contents | In-house Method, determined by LC-MS-MS | **PASS** |
| 16 | Specific migration of Bisphenol A (BPA) | DD CEN/TS 13130-13:2005, determined by LC-MS-MS | **PASS** |
| **Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material** | | | |
| 17 | Overall migration | EN 1186-1:2002 & EN 1186-3:2022 | **PASS** |
| 18 | Specific migration of Heavy Metal | EN 13130-1: 2004, determined by ICP-OES | **PASS** |
| 19 | Specific migration of Primary Aromatic Amine | EN 13130-1:2004, determined by LC-MS-MS | **PASS** |
| 20 | Bisphenol A (BPA) content | In-house Method, determined by LC-MS-MS | **PASS** |
| **Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC** | | | |
| 21 | Extractable Lead, Cadmium | 84/500/EEC, determined by AAS | **PASS** |

## Result:

### 1. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013

**AfPS-GS-2019-01:PAK，determined by GC-MS**

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | category I*1 | | | | |
| | | 2 | 3 | 7 | | |
| 1 | Benz[a]anthracene(BaA) CAS#56-55-3 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 2 | Chrysene(CHR) CAS#218-01-9 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 3 | Benz[b]fluoranthene(BbFA) CAS#205-99-2 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 4 | Benz[k]fluoranthene(BkFA) CAS#207-08-9 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 5 | Benz[j]fluoranthene(BjFA) CAS#205-82-3 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 6 | Benzo[a]pyrene(BaP) CAS#50-32-8 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 7 | Benzo[e]pyrene(BeP) CAS#192-97-2 | N.D. | N.D. | N.D. | 1 | 0.2 |
| 8 | Dibenz [a,h]anthracene (DBahA) CAS#53-70-3 | N.D. | N.D. | N.D. | 1 | 0.2 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **-** | **-** |

Remark: (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
1：Material category
Category I：Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
Category II ： Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

## 2. Phthalate content（DIBP、DEHP、DBP、BBP、DINP、DIDP 、DNOP） - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006

**EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS**

| Compound | | | Material | | | | | Limit (%) | RL (%) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 3 | 4 | 7 | 12 | | |
| 1 | DBP | Dibutyl Phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| | **Conclusion** | | **PASS** | **PASS** | **PASS** | **PASS** | **PASS** | **-** | **-** |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

## 3. Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006

**IEC 62321-5:2013, determined by AAS**

| Compound | | Material | | | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 5 | 6 | | |
| 1 | Lead(Pb) CAS#7439-92-1 | N.D. | N.D. | N.D. | N.D. | N.D. | 500 | 10 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **PASS** | **PASS** | **-** | **-** |

| Compound | | Material | | | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| | | 7 | 8 | 9 | 10 | 11 | | |
| 1 | Lead(Pb) CAS#7439-92-1 | N.D. | N.D. | N.D. | N.D. | N.D. | 500 | 10 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **PASS** | **PASS** | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 4. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006

**IEC 62321-5:2013, determined by AAS**

| Compound | | Result(s) | | | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 7 | 12 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | N.D. | N.D. | N.D. | N.D. | N.D. | 100 | 10 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **PASS** | **PASS** | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 5. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013

**ISO 14362-1:2017& ISO 14362-3:2017, determined by GC/MS and HPLC**

| Compound | | Material | | | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| | | 5 | 6 | 9 | 10 | 11 | | |
| 1 | Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 2 | Benzidine CAS#92-87-5 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 3 | 4-chloro-o-toluidine CAS#95-69-2 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 4 | 2-Naphthylamine CAS#91-59-8 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 5 | o-aminoazotoluene/4-o-tolyazao-o-toluidine /4-amino-2',3-dimethylazobenzene* CAS#97-56-3 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | 5-nitro-o-toluidine/2-amino-4-nitrotoluol*<br>CAS#99-55-8 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 7 | 4-chloroaniline<br>CAS#106-47-8 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 8 | 4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole<br>CAS#615-05-4 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 9 | 4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane<br>CAS#101-77-9 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 10 | 3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine<br>CAS#91-94-1 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 11 | 3,3'-dimethoxybenzidine/o-dianisidine<br>CAS#119-90-4 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 12 | 3,3'-dimethylbenzidine/4,4'-bi-o-toluidine<br>CAS#119-93-7 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 13 | 4,4'-methylenedi-o-toluidine<br>CAS#838-88-0 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 14 | 6-methoxy-m-toluidine/p-cresidine<br>CAS#120-71-8 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 15 | 4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline<br>CAS#101-14-4 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 16 | 4,4'-oxydianiline<br>CAS#101-80-4 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 17 | 4,4'-thiodianiline<br>CAS#139-65-1 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 18 | o-toluidine/2-aminotoluen<br>CAS#95-53-4 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 19 | 2,4-diaminotoluene/2,4-toluylendiamine/ methyl-m-phenylenediamine<br>CAS#95-80-7 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 20 | 2,4,5-trimethylaniline<br>CAS#137-17-7 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 21 | o-anisidine/2-methoxyaniline<br>CAS#90-04-0 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| 22 | 4-aminoazobenzene**<br>CAS#60-09-3 | N.D. | N.D. | N.D. | N.D. | N.D. | 30 | 5 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **PASS** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) N.D.: Not detected (result is less than RL)
(c) RL: Report limit
*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).
**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.

## 6. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)

**BS EN 12875-1:2005**

| | Sample | 13A | 13B | 13C |
|---|---|---|---|---|
| After 10 cycles | Color[1)] | 0 | 0 | 0 |
| | Gloss | 0 | 0 | 0 |
| | Clouding | 0 | 0 | 0 |
| | Resistant deposits and iridescent layers [2)] | 0 | 0 | 0 |
| | Other aspects | 0 | 0 | 0 |

Remark(s): 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.
2).For the elimination of easily removable deposits.
3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process. Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

| Classification | Rating |
|---|---|
| 0 | No visible change |
| 1 | First discernible change |
| 2 | Clearly visible change |

Requirements quoted from Publicly Available Specification PAS 54: 2003
Articles that are designated “dishwasher resistant”, “dishwasher proof”, “dishwasher safe” or any other similar description that suggests that the articles can be safety cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change(Classification 1) but shall not show clearly visible change (Classification 2)

## 7. Colour Fastness to Rubbing PASS

**ISO 105-X12:2016, (Minimum requirement(Grade): Dry≥2-3，Wet≥2-3)**

| Sample | Result (Grade) | |
|---|---|---|
| | Dry | Wet |
| 5 | 3-4 | 4-5 |
| 6 | 4-5 | 3 |
| 9 | 3 | 4 |
| 10 | 4-5 | 4-5 |
| 11 | 4 | 4 |

Remark(s): Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

## Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

## 8. Overall Migration

**EN 1186-1:2002 & EN 1186-3:2022**

| Test specification | | Result(s) | Limit ($mg/dm^2$) | RL ($mg/dm^2$) |
|---|---|---|---|---|
| | | 3-3rd | | |
| 1 | 3% Acetic acid, 70℃, 2h | N.D. | 10 | 3 |
| 2 | 50% Ethanol,70℃, 2h | N.D. | 10 | 3 |
| | **Conclusion** | **PASS** | - | - |

Remark(s): (a) $mg/dm^2$: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 9. Bisphenol A (BPA) content

**In-house Method,determined by LC-MS-MS**

| Test Item | | Material | Client's Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 3 | | |
| 1 | Bisphenol A | N.D. | Not Detected | 0.01 |
| | **Conclusion** | **PASS** | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

## 10. Specific migration of Bisphenol A

**DD CEN/TS 13130-13:2005, determined by LC-MS-MS**

Test Condition: 3% Acetic acid, 70℃, 2h

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 3-3rd | | |
| 1 | Bisphenol A (BPA) | N.D. | 0.05 | 0.01 |
| | **Conclusion** | **PASS** | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

## 11. Overall migration

**EN 1186-1:2002 & EN 1186-3:2022**

| Test specification | | Result(s) | Limit ($mg/dm^2$) | RL ($mg/dm^2$) |
|---|---|---|---|---|
| | | 3-3rd | | |
| 1 | 3% Acetic acid, 70℃, 2h | N.D. | 10 | 3 |
| 2 | 50% Ethanol, 70℃, 2h | N.D. | 10 | 3 |
| | **Conclusion** | **PASS** | - | - |

Remark(s): (a) mg/dm$^2$: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 12. Peroxide Value

**Europe pharmacopoeia,9.0 chapter 2.5.5.**

| Compound | | Material | Requirement |
|---|---|---|---|
| | | 3 | |
| 1 | Peroxide Value | Negative | Negative |
| | **Conclusion** | **PASS** | **-** |

## 13. Specific migration of Organotin(as Tin)

**EN 13130-1:2004, determined by ICP-OES**

Test condition: 3% Acetic acid, 70℃, 2h

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 3-3rd | | |
| 1 | Organotin(as Sn) | N.D. | 0.1 | 0.01 |
| | **Conclusion** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 14. Volatile organic matter

**French Arrêté du Novembre 1992 Annex III.**

Test condition: 200℃, 4h

| Compound | | Material | Limit (%) | RL (%) |
|---|---|---|---|---|
| | | 3 | | |
| 1 | Volatile Compounds | 0.2 | 0.5 | 0.1 |
| | **Conclusion** | **PASS** | **-** | **-** |

Remark(s): (a) RL: Report limit

## 15. Bisphenol A Contents

**In-house Method, determined by LC-MS-MS**

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 3 | | |
| 1 | Bisphenol A | N.D. | Prohibit | 0.1 |
| | **Conclusion** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 16. Specific migration of Bisphenol A

**DD CEN/TS 13130-13:2005, determined by LC-MS-MS**

Test Condition: 3% Acetic acid, 70℃, 2h

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | $3^{-3rd}$ | | |
| 1 | Bisphenol A (BPA) | N.D. | Prohibit | 0.01 |
| | **Conclusion** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

**Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213**

## 17. Overall migration

**EN 1186-1:2002 & EN 1186-3:2022**

| Test specification | | Result(s) | | | Limit ($mg/dm^2$) | RL ($mg/dm^2$) |
|---|---|---|---|---|---|---|
| | | 2 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | 3% Acetic acid, 70℃, 2h | N.D. | N.D. | N.D. | 10 | 3 |
| 2 | 50% Ethanol, 70℃, 2h | N.D. | N.D. | N.D. | 10 | 3 |
| | **Conclusion** | - | - | **PASS** | - | - |

Remark(s): (a) $mg/dm^2$: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 18. Specific migration of Heavy Metal

**EN 13130-1: 2004, determined by ICP-OES**

Test condition: 3% Acetic acid, 70℃, 2h

| Compound | | Result(s) | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 2 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | Aluminum (Al) | N.D. | N.D. | N.D. | 1 | 0.1 |
| 2 | Ammonium | N.D. | N.D. | N.D. | - | 0.1 |
| 3 | Antimony (Sb) | N.D. | N.D. | N.D. | 0.04 | 0.01 |
| 4 | Arsenic (As) | N.D. | N.D. | N.D. | Not Detected | 0.01 |
| 5 | Barium (Ba) | N.D. | N.D. | N.D. | 1 | 0.1 |
| 6 | Cadmium(Cd) | N.D. | N.D. | N.D. | Not Detected | 0.002 |
| 7 | Calcium(Ca) | N.D. | N.D. | N.D. | - | 0.1 |
| 8 | Chromium (Cr) | N.D. | N.D. | N.D. | Not Detected | 0.01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Cobalt (Co) | N.D. | N.D. | N.D. | 0.05 | 0.01 |
| 10 | Copper (Cu) | N.D. | N.D. | N.D. | 5 | 0.5 |
| 11 | Europium (Eu) | N.D. | N.D. | N.D. | 0.05* | 0.01 |
| 12 | Gadolinium (Gd) | N.D. | N.D. | N.D. | 0.05* | 0.01 |
| 13 | Iron (Fe) | N.D. | N.D. | N.D. | 48 | 1 |
| 14 | Lanthanum (La) | N.D. | N.D. | N.D. | 0.05* | 0.01 |
| 15 | Lead(Pb) | N.D. | N.D. | N.D. | Not Detected | 0.01 |
| 16 | Lithium (Li) | N.D. | N.D. | N.D. | 0.6 | 0.1 |
| 17 | Magnesium(Mg) | N.D. | N.D. | N.D. | - | 0.1 |
| 18 | Manganese (Mn) | N.D. | N.D. | N.D. | 0.6 | 0.05 |
| 19 | Mercury(Hg) | N.D. | N.D. | N.D. | Not Detected | 0.01 |
| 20 | Nickel (Ni) | N.D. | N.D. | N.D. | 0.02 | 0.01 |
| 21 | Potassium(K) | N.D. | N.D. | N.D. | - | 0.1 |
| 22 | Sodium(Na) | N.D. | N.D. | N.D. | - | 0.1 |
| 23 | Terbium (Tb) | N.D. | N.D. | N.D. | 0.05* | 0.01 |
| 24 | Zinc (Zn) | N.D. | N.D. | N.D. | 5 | 1 |
| | **Conclusion** | **-** | **-** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d)*:The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg

## 19. Specific migration of Primary Aromatic Amine

**EN 13130-1:2004, determined by LC-MS-MS**

Test Condition: 3% Acetic acid, 70℃, 2h

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 2 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS No.:92-67-1 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 2 | Benzidine CAS No.:92-87-5 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 3 | 4-chloro-o-toluidine CAS No.:95-69-2 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 4 | 2-Naphthylamine CAS No.:91-59-8 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 5 | o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS No.:97-56-3 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 6 | 5-nitro-o-toluidine CAS No.:99-55-8 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 7 | 4-Chloroaniline CAS No.:106-47-8 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 8 | 4-methoxy-m-phenylenediamine CAS No.:615-05-4 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 9 | 4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 10 | 3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS No.:91-94-1 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 11 | 3,3'-dimethoxybenzidine o-dianisidine CAS No.:119-90-4 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 12 | 3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 13 | 4,4'-methylenedi-o-toluidine CAS No.:838-88-0 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 14 | 6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 15 | 4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline | N.D. | N.D. | N.D. | 0.002 | 0.002 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | CAS No.:101-14-4 | | | | | |
| 16 | 4,4'-oxydianiline<br>CAS No.:101-80-4 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 17 | 4,4'-thiodianiline<br>CAS No.:139-65-1 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 18 | o-toluidine<br>2-aminotoluene<br>CAS No.:95-53-4 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 19 | 4-methyl-m-phenylenediamine<br>CAS No.:95-80-7 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 20 | 2,4,5-trimethylaniline<br>CAS No.:137-17-7 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 21 | o-anisidine<br>2-methoxyaniline<br>CAS No.:90-04-0 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 22 | 4-amino azobenzene<br>CAS No.:60-09-3 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 23 | m-Phenylenediamine (m- PDA)<br>CAS No.:108-45-2 | N.D. | N.D. | N.D. | 0.002 | 0.002 |
| 24 | 1,5- Diaminenaphthalene<br>CAS No.:2243-62-01 | N.D. | N.D. | N.D. | - | 0.002 |
| 25 | Aniline (ANL)<br>CAS No.:62-53-3 | N.D. | N.D. | N.D. | - | 0.002 |
| 26 | 2,4-Dimethylaniline (2,4-DMA)<br>CAS No.:95-68-1 | N.D. | N.D. | N.D. | - | 0.002 |
| 27 | 2,6-Dimethylaniline (2,6-DMA)<br>CAS No.:87-62-7 | N.D. | N.D. | N.D. | - | 0.002 |
| 28 | m-Phenylenediamine (m- PDA)<br>CAS No.:108-45-2 | N.D. | N.D. | N.D. | - | 0.002 |
| 29 | p-Phenylenediamine (p-PDA)<br>CAS No.:106-50-3 | N.D. | N.D. | N.D. | - | 0.002 |
| 30 | 2,6-Toluenediamine (2,6- TDA)<br>CAS No.:823-40-5 | N.D. | N.D. | N.D. | - | 0.002 |
| - | Sum of 24~30 | N.D. | N.D. | N.D. | 0.01 | - |
| | **Conclusion** | - | - | **PASS** | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## 20. Bisphenol A (BPA) content

**In-house Method,determined by LC-MS-MS**

| Test Item | | Material | Client's Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 2 | | |
| 1 | Bisphenol A | N.D. | Not Detected | 0.01 |
| | **Conclusion** | **PASS** | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

**Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material**

## 21. Extractable Lead, Cadmium

**84/500/EEC, determined by AAS**

Test Condition: 4% Acetic acid, 22℃, 24h

| Test specification | | Result(s) | Limit (mg/L) | RL (mg/L) |
|---|---|---|---|---|
| | | 8 | | |
| 1 | Lead (Pb) | N.D. | 4 | 0 .1 |
| 2 | Cadmium (Cd) | N.D. | 0.3 | 0.01 |
| | **Conclusion** | **PASS** | - | - |

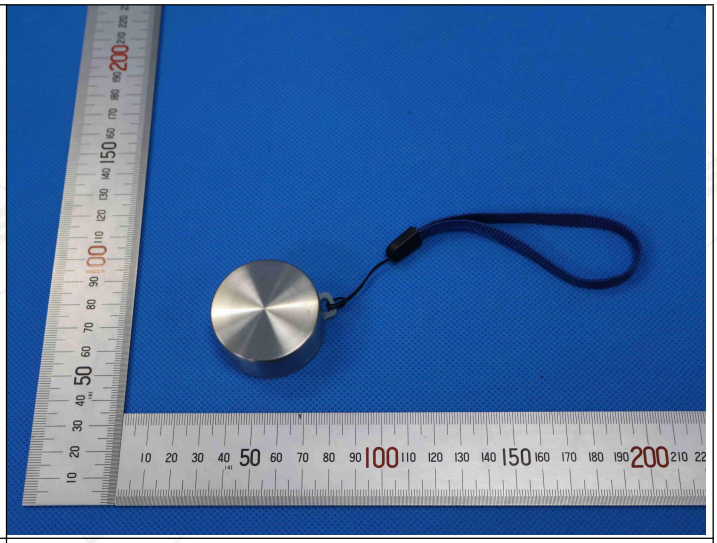
Remark(s): (a) mg/L: milligrams per liter
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

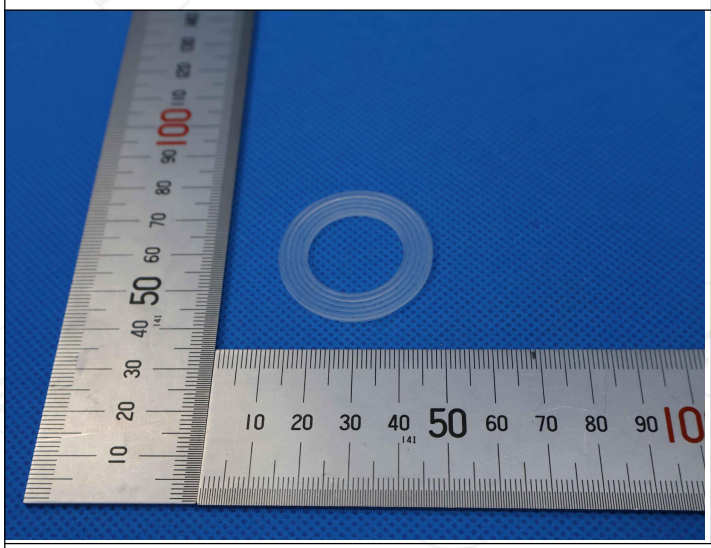
## Material List:

| Material # | Position / Sample Description | Material |
|---|---|---|
| 1 | Silvery metal,lid | - |
| 2 | Grey plastic,lid | PP |
| 3 | Translucent silicone,sealing ring | Silicone |
| 4 | Transparent plastic,core | - |
| 5 | Black textile,string | - |
| 6 | Blue textile,belt | - |
| 7 | Black plastic,holder | - |
| 8 | Transparent glass,bottle | Glass |
| 9 | Dark blue textile,bottle sleeve | - |
| 10 | Blue fabric,edge | - |
| 11 | Black fabric,bottle sleeve | - |
| 12 | Black foam,bottle sleeve | - |
| 13 | Article | - |

Remark(s): The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.

**Photo(s):**





Test Sample Photo

**<<<<<< END OF REPORT >>>>>>**

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