# 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:** RPET bottle with carry handle on lid

**Model/Style/Item #:** MO6976

**Receiving Date:** 15-May-2023,22-May-2023

**Test Period:** From 15-May-2023 to 24-May-2023

**Add Information:** -

## Test Summary:

| # | Test Item(s) | Reference Standard/Method | Result(s) |
|---|---|---|---|
| 1 | Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 | IEC 62321-5:2013, determined by AAS | **PASS** |
| 2 | Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 | IEC 62321-5:2013, determined by AAS | **PASS** |
| 3 | 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** |
| 4 | 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** |

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Signed for and on behalf of STS

Tim

Tim Qi
(Technical Director)

GUANGZHOU DEPUHUA TEST SERVICES CO., LTD
TESTING SERVICES

| # | Test Item(s) | Reference Standard/Method | Result |
|---|---|---|---|
| **Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material** | | | |
| 5 | Overall migration | EN 1186-1:2002 & EN 1186-3:2002 | **PASS** |
| 6 | Specific migration of Heavy Metal | EN 13130-1: 2004, determined by ICP-OES | **PASS** |
| 7 | Specific migration of Primary Aromatic Amine | EN 13130-1:2004, determined by GC/MS | **PASS** |
| 8 | Bisphenol A (BPA) content | In-house Method,determined by LC-MS | **PASS** |
| **Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material** | | | |
| 9 | Overall migration | EN 1186-1:2002 & EN 1186-3:2002 | **PASS** |
| 10 | Bisphenol A Contents | In-house Method, determined by LC/MS | **PASS** |
| 11 | Specific migration of Bisphenol A (BPA) | DD CEN/TS 13130-13:2005, determined by LC/MS | **PASS** |
| **Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material** | | | |
| 12 | Overall migration | EN 1186-1:2002 & EN 1186-3:2002 | **PASS** |
| 13 | Peroxides value | French pharmacopoeia method | **PASS** |
| 14 | Volatile Compounds Content | Order 25/11/1992 | **PASS** |
| 15 | Organotin Content for Silicone Materials in Contact with Foodstuffs | EN 13130-1:2004,determined by ICP-OES | **PASS** |
| 16 | Specific migration of Bisphenol A for Silicone Materials in Contact with Foodstuffs | DD CEN/TS 13130-13:2005, determined by LC/MS | **PASS** |
| 17 | Bisphenol A Contents | In-house Method, determined by LC-MS | **PASS** |

## Result(s):

### 1. 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 | 4 | | |
| 1 | Lead(Pb) CAS#7439-92-1 | 27 | N.D. | N.D. | N.D. | 500 | 10 |
| | **Conclusion** | **PASS** | **PASS** | **PASS** | **PASS** | - | - |

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

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

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

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

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | | |
| 1 | Cadmium (Cd)<br>CAS#7440-43-9 | N.D. | N.D. | N.D. | 100 | 10 |
| | **Conclusion** | **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)

## 3. 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 | | |
| 1 | DBP | Dibutyl Phthalate<br>CAS# 84-74-2 | N.D. | N.D. | N.D. | - | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate<br>CAS# 85-68-7 | N.D. | N.D. | N.D. | - | 0.005 |
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate<br>CAS# 117-81-7 | N.D. | N.D. | N.D. | - | 0.005 |
| 4 | DIBP | Diisobutyl phthalate<br>CAS# 84-69-5 | N.D. | N.D. | N.D. | - | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate<br>CAS# 117-84-0 | N.D. | N.D. | N.D. | - | 0.005 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | N.D. | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | N.D. | N.D. | 0.1 | - |
| | **Conclusion** | | **PASS** | **PASS** | **PASS** | **-** | **-** |

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

## 4. 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 | 4 | | |
| 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.

**Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material**

## 5. Overall migration

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

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

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

## 6. 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** | - | - |

| **Compound** | | **Result(s)** | | | **Limit (mg/kg)** | **RL (mg/kg)** |
|---|---|---|---|---|---|---|
| | | **3** | | | | |
| | | 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) | 0.1 | 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) | 0.7 | N.D. | N.D. | - | 0.1 |
| 22 | Sodium(Na) | 0.4 | 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

## 7. Specific migration of Primary Aromatic Amine

**EN 13130-1:2004, determined by GC/MS**

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

| Compound | | Result | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 2 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | Primary Aromatic Amines(PAAs) | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| | **Conclusion** | - | - | **PASS** | - | - |

| 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. | 0.01 | 0.002 |
| 2 | Benzidine CAS No.:92-87-5 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 3 | 4-chloro-o-toluidine CAS No.:95-69-2 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 4 | 2-Naphthylamine CAS No.:91-59-8 | N.D. | N.D. | N.D. | 0.01 | 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. | 0.01 | 0.002 |
| 6 | 5-nitro-o-toluidine CAS No.:99-55-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 7 | 4-Chloroaniline CAS No.:106-47-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 8 | 4-methoxy-m-phenylenediamine CAS No.:615-05-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 9 | 4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 10 | 3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS No.:91-94-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 11 | 3,3'-dimethoxybenzidine o-dianisidine CAS No.:119-90-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 12 | 3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 13 | 4,4'-methylenedi-o-toluidine CAS No.:838-88-0 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 14 | 6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 15 | 4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene-dianiline CAS No.:101-14-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 16 | 4,4'-oxydianiline CAS No.:101-80-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 17 | 4,4'-thiodianiline CAS No.:139-65-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 18 | o-toluidine 2-aminotoluene CAS No.:95-53-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 19 | 4-methyl-m-phenylenediamine CAS No.:95-80-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 20 | 2,4,5-trimethylaniline CAS No.:137-17-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 21 | o-anisidine 2-methoxyaniline CAS No.:90-04-0 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 22 | 4-amino azobenzene | N.D. | N.D. | N.D. | 0.01 | 0.002 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | CAS No.:60-09-3 | | | | | |
| 23 | 1,5- Diaminenaphthalene<br>CAS No.:2242-62-01 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 24 | Aniline (ANL)<br>CAS No.:62-53-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 25 | 2,4-Dimethylaniline (2,4-DMA)<br>CAS No.:95-68-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 26 | 2,6-Dimethylaniline (2,6-DMA)<br>CAS No.:87-62-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 27 | m-Phenylenediamine (m- PDA)<br>CAS No.:108-45-2 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 28 | p-Phenylenediamine (p-PDA)<br>CAS No.:106-50-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 29 | 2,6-Toluenediamine (2,6- TDA)<br>CAS No.:823-40-5 | N.D. | N.D. | N.D. | 0.01 | 0.002 |

| Compound | | Result | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 3 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | Primary Aromatic Amines(PAAs) | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| | **Conclusion** | **-** | **-** | **PASS** | **-** | **-** |

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|---|
| | | 3 | | | | |
| | | 1st | 2nd | 3rd | | |
| 1 | biphenyl-4-ylamine 4- aminobiphenyl xenylamine<br>CAS No.:92-67-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 2 | Benzidine<br>CAS No.:92-87-5 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 3 | 4-chloro-o-toluidine<br>CAS No.:95-69-2 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 4 | 2-Naphthylamine<br>CAS No.:91-59-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 5 | o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine<br>CAS No.:97-56-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 5-nitro-o-toluidine<br>CAS No.:99-55-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 7 | 5-Chloroaniline<br>CAS No.:106-47-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 8 | 5-methoxy-m-phenylenediamine<br>CAS No.:615-05-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 9 | 4,4'-methylenedianiline<br>4,4'-diaminodiphenylmethane<br>CAS No.:101-77-9 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 10 | 3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine<br>CAS No.:91-94-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 11 | 3,3'-dimethoxybenzidine o-dianisidine<br>CAS No.:119-90-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 12 | 3,3'-dimethylbenzidine<br>4,4'-bi-o-toluidine<br>CAS No.:119-93-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 13 | 4,4'-methylenedi-o-toluidine<br>CAS No.:838-88-0 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 14 | 6-methoxy-m-toluidine p- cresidine<br>CAS No.:120-71-8 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 15 | 4,4'-methylene-bis-(2-chloro- aniline)<br>2,2'-dichloro-4,4'-methylene-dianiline<br>CAS No.:101-14-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 16 | 4,4'-oxydianiline<br>CAS No.:101-80-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 17 | 4,4'-thiodianiline<br>CAS No.:139-65-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 18 | o-toluidine<br>2-aminotoluene<br>CAS No.:95-53-4 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 19 | 4-methyl-m-phenylenediamine<br>CAS No.:95-80-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 20 | 2,4,5-trimethylaniline<br>CAS No.:137-17-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 21 | o-anisidine<br>2-methoxyaniline<br>CAS No.:90-04-0 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 22 | 4-amino azobenzene<br>CAS No.:60-09-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 23 | 1,5- Diaminenaphthalene<br>CAS No.:2242-62-01 | N.D. | N.D. | N.D. | 0.01 | 0.002 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 24 | Aniline (ANL)<br>CAS No.:62-53-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 25 | 2,4-Dimethylaniline (2,4-DMA)<br>CAS No.:95-68-1 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 26 | 2,6-Dimethylaniline (2,6-DMA)<br>CAS No.:87-62-7 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 27 | m-Phenylenediamine (m- PDA)<br>CAS No.:108-45-2 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 28 | p-Phenylenediamine (p-PDA)<br>CAS No.:106-50-3 | N.D. | N.D. | N.D. | 0.01 | 0.002 |
| 29 | 2,6-Toluenediamine (2,6- TDA)<br>CAS No.:823-40-5 | N.D. | N.D. | N.D. | 0.01 | 0.002 |

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

## 8. Bisphenol A (BPA) content

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

| Test Item | | Material | | Client's Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|---|
| | | 2 | 3 | | |
| 1 | Bisphenol A | N.D. | N.D. | Not Detected | 0.01 |
| | **Conclusion** | **PASS** | **PASS** | **-** | **-** |

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

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

## 9. Overall Migration for Silicone Materials in Contact with Foodstuffs

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

| Test specification | | Material | Limit ($mg/dm^2$) | RL ($mg/dm^2$) |
|---|---|---|---|---|
| | | 4-3rd | | |
| 1 | 50%Ethanol, 70℃, 2h | N.D. | 10 | 3 |
| 2 | 3%acetic acid ,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)

## 10. Specific migration of Bisphenol A

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

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

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 4-3rd | | |
| 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)

## 11. Bisphenol A (BPA) content

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

| Test Item | | Material | Client's Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 4 | | |
| 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,French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material**

## 12. Overall Migration for Silicone Materials in Contact with Foodstuffs

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

| Test specification | | Material | Limit ($mg/dm^2$) | RL ($mg/dm^2$) |
|---|---|---|---|---|
| | | 4-3rd | | |
| 1 | 50%Ethanol, 70℃, 2h | N.D. | 10 | 3 |
| 2 | 3%acetic acid ,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)

## 13. Peroxide Value for Silicone Materials in Contact with Foodstuffs

**French pharmacopoeia method**

| Compound | | Material | Requirement |
|---|---|---|---|
| | | 4 | |
| 1 | Peroxide Value | Negative | Negative |
| | **Conclusion** | **PASS** | **-** |

## 14. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs

**Order 25/11/1992**

Test condition: 200℃, 4h

| Compound | | Material | Limit (%) | RL (%) |
|---|---|---|---|---|
| | | 4 | | |
| 1 | Volatile Compounds | 0.24 | 0.5 | 0.1 |
| | **Conclusion** | **PASS** | **-** | **-** |

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

## 15. Organotin Content for Silicone Materials in Contact with Foodstuffs

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

Test condition:3%Acetic acid,70℃, 2h

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 4 | | |
| 1 | Organotin(as Sn) | N.D. | 0.1 | 0.01 |
| | **Conclusion** | **PASS** | **-** | **-** |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit

## 16. Specific migration of Bisphenol A for Silicone Materials in Contact with Foodstuffs

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

Test Condition: 3%Acetic acid,70℃, 2h

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | $4^{-3rd}$ | | |
| 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)

## 17. Bisphenol A Contents

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

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|---|---|---|---|---|
| | | 4 | | |
| 1 | Bisphenol A | N.D. | Prohibit | 0.1 |
| | **Conclusion** | **PASS** | **-** | **-** |

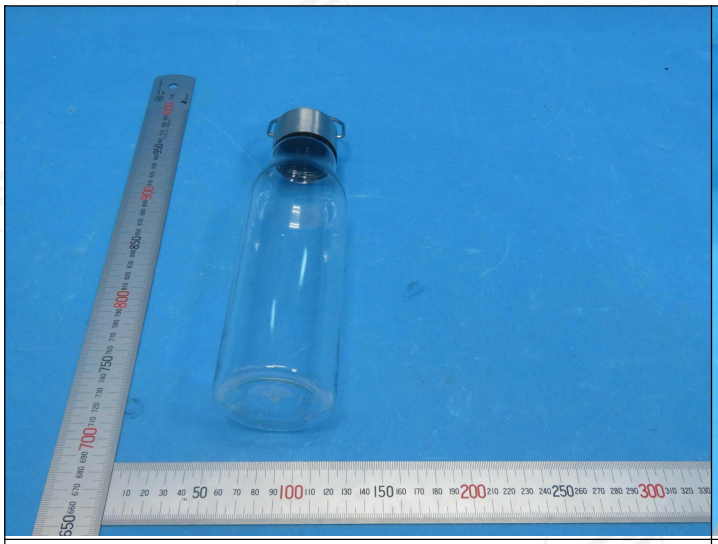
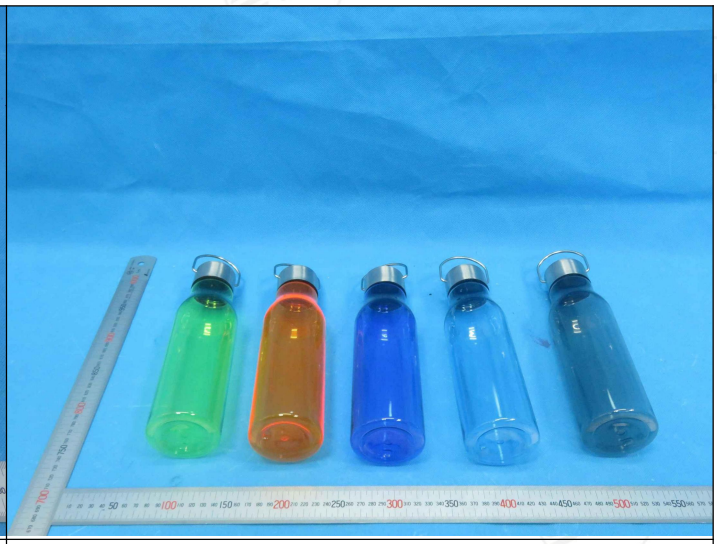
Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

## Material List:

| Material # | Position / Sample Description |
|---|---|
| 1 | Silvery metal,lid |
| 2 | Black plastic,cup lid |
| 3 | Transparent plastic,cup body |
| 4 | Transparent silica gel,ring |
| 5 | Silvery metal,handle |

Remark(s): The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.
The data of #2 was retesting result.

## Photo(s):

| | |
|---|---|
|  |  |
| Test Sample Photo | Product Photo |

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

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