



# TEST REPORT

Report No.: CCI251201108EN

Report Date: Dec. 26, 2025

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

**Address** : Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan, Kowloon, Hong Kong

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

**Sample Name** : Double wall vacuum insulating bottle

**Model/Item No.** : MO2336

**Vendor Code** : 107978

**Test Period** : From Dec. 22, 2025 to Dec. 26, 2025

**Tests Conducted** : As requested by the applicant, for details refer to next page(s).

Signed for and on behalf of  
Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by: 

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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## Executive Summary:

| No. | TESTED SAMPLES                            | STANDARD / REQUIREMENT                                                                                                                                                                                                                                                                                                                                                | CONCLUSION |
|-----|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1   | Tested material(s) of submitted sample(s) | Entry 23 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Cadmium (Cd)                                                                                                                                                                                                                                                                                       | PASS       |
| 2   | Tested material(s) of submitted sample(s) | Entry 50 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Polycyclic-aromatic hydrocarbons (PAH)                                                                                                                                                                                                                                                             | PASS       |
| 3   | Tested material(s) of submitted sample(s) | Entry 51&52 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Phthalate                                                                                                                                                                                                                                                                                       | PASS       |
| 4   | Tested material(s) of submitted sample(s) | Entry 63 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Lead (Pb)                                                                                                                                                                                                                                                                                          | PASS       |
| 5   | Tested material(s) of submitted sample(s) | Regulation (EU) No 1935/2004 and Technical guide on Metals and alloys used in food contact materials and articles (2 <sup>nd</sup> edition), supplementing Council of Europe Resolution CM/Res (2020)9<br>- Specific migration of heavy metals                                                                                                                        | PASS       |
| 6   | Tested material(s) of submitted sample(s) | Regulation (EC) No. 1935/2004 & Regulation (EU) No 10/2011 and amendment directive (EU) 2020/1245 and the amendment Commission Regulation (EU) 2024/3190 for plastic materials<br>- Overall Migration<br>- 3% Acetic acid<br>- 50% Ethanol<br>- Specific migration of restricted substances<br>- Specific migration of Primary Aromatic Amines<br>- Bisphenol A (BPA) | PASS       |
| 7   | Tested material(s) of submitted sample(s) | Regulation (EC) No. 1935/2004 & Resolution AP(2004)5 on Silicone rubber products intended to come into contact with foodstuffs<br>- Overall Migration<br>- 3% Acetic acid<br>- 50% Ethanol<br>- Bisphenol A (BPA)<br>- Specific migration of Bisphenol A (BPA)                                                                                                        | PASS       |
| 8   | Tested material(s) of submitted sample(s) | French Arrêté du 25 novembre 1992 on Silicon<br>- Overall Migration<br>- 3% Acetic acid<br>- 50% Ethanol<br>- Volatile Organic matter (VOM)                                                                                                                                                                                                                           | PASS       |



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| No. | TESTED SAMPLES      | STANDARD / REQUIREMENT                                                                                                                                                                            | CONCLUSION |
|-----|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|     |                     | <ul style="list-style-type: none"><li>- Peroxide Value</li><li>- Specific migration of organotin (As Tin)</li><li>- Bisphenol A (BPA)</li><li>- Specific migration of Bisphenol A (BPA)</li></ul> |            |
| 9   | Submitted sample(s) | Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003                                                                                                  | PASS       |



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## TESTS CONDUCTED:

### 1. Cadmium (Cd)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Material No. | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) | Conclusion |
|--------------|---------------|------------|---------------------|------------|
| 1            | 1000          | 2          | N.D.                | PASS       |
| 4+5          | 100           | 2          | N.D.                | PASS       |

## Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

### 2. Polycyclic-aromatic hydrocarbons (PAH)

Test Method: With reference to AfPS GS 2019:01 PAK, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

| Restricted Substances          | CAS No.  | RL (mg/kg) | Test Result (mg/kg) |      |
|--------------------------------|----------|------------|---------------------|------|
|                                |          |            | 1                   | 4+5  |
| Benzo[a]pyrene (BaP)           | 50-32-8  | 0.2        | N.D.                | N.D. |
| Benzo[e]pyrene (BeP)           | 192-97-2 | 0.2        | N.D.                | N.D. |
| Benzo[a]anthracene (BaA)       | 56-55-3  | 0.2        | N.D.                | N.D. |
| Chrysen (CHR)                  | 218-01-9 | 0.2        | N.D.                | N.D. |
| Benzo[b]fluoranthene (BbFA)    | 205-99-2 | 0.2        | N.D.                | N.D. |
| Benzo[j]fluoranthene (BjFA)    | 205-82-3 | 0.2        | N.D.                | N.D. |
| Benzo[k]fluoranthene (BkFA)    | 207-08-9 | 0.2        | N.D.                | N.D. |
| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3  | 0.2        | N.D.                | N.D. |
| Conclusion                     |          |            | PASS                | PASS |



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## Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. Requirement: a) For articles for supply to the general public: No more than 1mg/kg each;  
b) For toys: No more than 0.5mg/kg each.

## 3. Phthalates

Test Method: With reference to EN 14372:2004, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

| Restricted Substances              | CAS No.                  | RL (%) | Limit (%) | Test Result (%) |      |
|------------------------------------|--------------------------|--------|-----------|-----------------|------|
|                                    |                          |        |           | 1               | 4+5  |
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | 0.003  | 0.1       | N.D.            | N.D. |
| Dibutyl phthalate (DBP)            | 84-74-2                  | 0.003  | 0.1       | N.D.            | N.D. |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | 0.003  | 0.1       | N.D.            | N.D. |
| Diisobutyl phthalate (DIBP)        | 84-69-5                  | 0.003  | 0.1       | N.D.            | N.D. |
| Sum                                |                          | /      | 0.1       | N.D.            | N.D. |
| Di-isononyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | 0.005  | 0.1       | N.D.            | N.D. |
| Di-isodecyl phthalate (DIDP)       | 26761-40-0<br>68515-49-1 | 0.005  | 0.1       | N.D.            | N.D. |
| Di-n-octyl phthalate (DNOP)        | 117-84-0                 | 0.003  | 0.1       | N.D.            | N.D. |
| Sum                                |                          | /      | 0.1       | N.D.            | N.D. |
| Conclusion                         |                          |        |           | PASS            | PASS |

## Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. / = Not Specified.



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## 4. Lead (Pb)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Material No. | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) | Conclusion |
|--------------|---------------|------------|---------------------|------------|
| 1            | 500           | 2          | N.D.                | PASS       |
| 2+3          | 500           | 2          | N.D.                | PASS       |
| 4+5          | 500           | 2          | N.D.                | PASS       |
| 6+7          | 500           | 2          | N.D.                | PASS       |

### Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 5. Specific migration of heavy metal

Test Method: With reference to the Chapter 3 of the Technical guide on Metals and alloys used in food contact materials and articles (2nd edition), the analysis was performed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) or Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Test Condition: 5g/L Citric acid, 70°C, 2h, 3 times release tests

| Test Item       | RL<br>(mg/kg) | Limit (mg/kg)                                    |                                 | Test Result (mg/kg)                              |                                 | Conclusion |
|-----------------|---------------|--------------------------------------------------|---------------------------------|--------------------------------------------------|---------------------------------|------------|
|                 |               |                                                  |                                 | 3                                                |                                 |            |
|                 |               | Migration of<br>1 <sup>st</sup> +2 <sup>nd</sup> | Migration of<br>3 <sup>rd</sup> | Migration of<br>1 <sup>st</sup> +2 <sup>nd</sup> | Migration of<br>3 <sup>rd</sup> |            |
| Aluminum (Al)   | 0.2           | 35                                               | 5                               | N.D.                                             | N.D.                            | PASS       |
| Antimony (Sb)   | 0.02          | 0.28                                             | 0.04                            | N.D.                                             | N.D.                            | PASS       |
| Chromium (Cr)   | 0.1           | 7                                                | 1                               | N.D.                                             | N.D.                            | PASS       |
| Cobalt (Co)     | 0.01          | 0.14                                             | 0.02                            | N.D.                                             | N.D.                            | PASS       |
| Copper (Cu)     | 0.2           | 28                                               | 4                               | N.D.                                             | N.D.                            | PASS       |
| Iron (Fe)       | 0.5           | 280                                              | 40                              | N.D.                                             | N.D.                            | PASS       |
| Magnesium (Mg)  | 1.0           | --                                               | --                              | N.D.                                             | N.D.                            | PASS       |
| Manganese (Mn)  | 0.2           | 3.85                                             | 0.55                            | N.D.                                             | N.D.                            | PASS       |
| Molybdenum (Mo) | 0.02          | 0.84                                             | 0.12                            | N.D.                                             | N.D.                            | PASS       |
| Nickel (Ni)     | 0.02          | 0.98                                             | 0.14                            | N.D.                                             | N.D.                            | PASS       |
| Silver (Ag)     | 0.02          | 0.56                                             | 0.08                            | N.D.                                             | N.D.                            | PASS       |
| Tin (Sn)        | 1.0           | 700                                              | 100                             | N.D.                                             | N.D.                            | PASS       |
| Ti(Titanium)    | 0.01          | --                                               | --                              | N.D.                                             | N.D.                            | PASS       |
| Vanadium (V)    | 0.005         | 0.07                                             | 0.01                            | N.D.                                             | N.D.                            | PASS       |
| Zinc (Zn)       | 1.0           | 35                                               | 5                               | N.D.                                             | N.D.                            | PASS       |
| Zirconium (Zr)  | 1.0           | 14                                               | 2                               | N.D.                                             | N.D.                            | PASS       |
| Arsenic (As)    | 0.001         | 0.014                                            | 0.002                           | N.D.                                             | N.D.                            | PASS       |
| Barium (Ba)     | 0.2           | 8.4                                              | 1.2                             | N.D.                                             | N.D.                            | PASS       |
| Beryllium (Be)  | 0.005         | 0.07                                             | 0.01                            | N.D.                                             | N.D.                            | PASS       |
| Cadmium (Cd)    | 0.002         | 0.035                                            | 0.005                           | N.D.                                             | N.D.                            | PASS       |
| Lead (Pb)       | 0.002         | 0.070                                            | 0.010                           | N.D.                                             | N.D.                            | PASS       |
| Lithium (Li)    | 0.01          | 0.336                                            | 0.048                           | N.D.                                             | N.D.                            | PASS       |
| Mercury (Hg)    | 0.002         | 0.021                                            | 0.003                           | N.D.                                             | N.D.                            | PASS       |
| Thallium (Tl)   | 0.001         | 0.007                                            | 0.001                           | N.D.                                             | N.D.                            | PASS       |



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**Note:**

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

## 6.1. Overall Migration

Test Method: With reference to EN 1186-1:2002, EN 1186-3:2022

S/V ration: 0.95 dm<sup>2</sup> / 95 mL

| Simulant Used                                     | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |
|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------|
|                                                   |                                |                             | 5                                 |
| Overall Migration - 3% Acetic acid<br>(100°C, 1h) | 10                             | 1                           | N.D.                              |
| Overall Migration - 50% Ethanol<br>(100°C, 1h)    | 10                             | 1                           | N.D.                              |
| Conclusion                                        |                                |                             | PASS                              |

**Note:**

1. mg/dm<sup>2</sup> = Milligram per square decimeter.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 6.2. Specific migration of restricted substances

Test Method: EN 13130-1:2004, the analysis was performed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS) or Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Test Condition: 3% acetic acid, 70°C , 2h

S/V ratio: 0.95 dm<sup>2</sup> / 159 mL

| Test Item       | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) |
|-----------------|---------------|------------|---------------------|
|                 |               |            | 5                   |
| Aluminum (Al)   | 1             | 0.05       | N.D.                |
| Manganese (Mn)  | 0.6           | 0.05       | N.D.                |
| Iron (Fe)       | 48            | 0.05       | N.D.                |
| Cobalt (Co)     | 0.05          | 0.01       | N.D.                |
| Copper (Cu)     | 5             | 0.05       | N.D.                |
| Zinc (Zn)       | 5             | 0.1        | N.D.                |
| Barium (Ba)     | 1             | 0.05       | N.D.                |
| Nickel (Ni)     | 0.02          | 0.01       | N.D.                |
| Lithium (Li)    | 0.6           | 0.02       | N.D.                |
| Antimony (Sb)   | 0.04          | 0.01       | N.D.                |
| Arsenic (As)    | N.D.          | 0.01       | N.D.                |
| Cadmium (Cd)    | N.D.          | 0.002      | N.D.                |
| Calcium (Ca)    | /             | 0.01       | N.D.                |
| Chromium (Cr)   | N.D.          | 0.01       | N.D.                |
| Europium (Eu)   | 0.05          | 0.05       | N.D.                |
| Gadolinium (Gd) | 0.05          | 0.05       | N.D.                |
| Lanthanum (La)  | 0.05          | 0.05       | N.D.                |
| Lead (Pb)       | N.D.          | 0.01       | N.D.                |
| Magnesium (Mg)  | /             | 0.01       | N.D.                |
| Mercury (Hg)    | N.D.          | 0.01       | N.D.                |
| Potassium (K)   | /             | 0.01       | N.D.                |
| Sodium (Na)     | /             | 0.01       | N.D.                |
| Terbium (Tb)    | 0.05          | 0.05       | N.D.                |
| Conclusion      |               |            | PASS                |

### Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

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## 6.3. Specific migration of Primary Aromatic Amines

Test Method: With reference to EN 13130-1:2004

Test Condition: 3% acetic acid, 70°C, 2h

S/V ration: 0.95 dm<sup>2</sup> / 159 mL

| No.                                 | Test Item                                     | CAS No.   | Limit<br>(mg/kg) | RL<br>(mg/kg) | Test Result (mg/kg) |
|-------------------------------------|-----------------------------------------------|-----------|------------------|---------------|---------------------|
|                                     |                                               |           |                  |               | 5                   |
| 1                                   | 4-aminodiphenyl                               | 92-67-1   | N.D.             | 0.002         | N.D.                |
| 2                                   | Benzidine                                     | 92-87-5   | N.D.             | 0.002         | N.D.                |
| 3                                   | 4-chloro-o-toluidine                          | 95-69-2   | N.D.             | 0.002         | N.D.                |
| 4                                   | 2-naphthylamine                               | 91-59-8   | N.D.             | 0.002         | N.D.                |
| 5                                   | o-aminoazotoluene                             | 97-56-3   | N.D.             | 0.002         | N.D.                |
| 6                                   | 2-amino-4-nitrotoluene                        | 99-55-8   | N.D.             | 0.002         | N.D.                |
| 7                                   | p-chloroaniline                               | 106-47-8  | N.D.             | 0.002         | N.D.                |
| 8                                   | 2,4-diaminoanisole                            | 615-05-4  | N.D.             | 0.002         | N.D.                |
| 9                                   | 4,4'-diaminodiphenylmethane                   | 101-77-9  | N.D.             | 0.002         | N.D.                |
| 10                                  | 3,3'-dichlorobenzidine                        | 91-94-1   | N.D.             | 0.002         | N.D.                |
| 11                                  | 3,3'-dimethoxybenzidine                       | 119-90-4  | N.D.             | 0.002         | N.D.                |
| 12                                  | 3,3'-dimethylbenzidine                        | 119-93-7  | N.D.             | 0.002         | N.D.                |
| 13                                  | 3,3'-dimethyl-<br>4,4'-diaminodiphenylmethane | 838-88-0  | N.D.             | 0.002         | N.D.                |
| 14                                  | p-cresidine                                   | 120-71-8  | N.D.             | 0.002         | N.D.                |
| 15                                  | 4,4'-methylene-bis-(2-chloroaniline)          | 101-14-4  | N.D.             | 0.002         | N.D.                |
| 16                                  | 4,4'-oxydianiline                             | 101-80-4  | N.D.             | 0.002         | N.D.                |
| 17                                  | 4,4'-thiodianiline                            | 139-65-1  | N.D.             | 0.002         | N.D.                |
| 18                                  | o-toluidine                                   | 95-53-4   | N.D.             | 0.002         | N.D.                |
| 19                                  | 2,4-diaminotoluene                            | 95-80-7   | N.D.             | 0.002         | N.D.                |
| 20                                  | 2,4,5-trimethylaniline                        | 137-17-7  | N.D.             | 0.002         | N.D.                |
| 21                                  | 2-methoxyaniline                              | 90-04-0   | N.D.             | 0.002         | N.D.                |
| 22                                  | 4-aminoazobenzene                             | 60-09-3   | N.D.             | 0.002         | N.D.                |
| Other primary aromatic amines (sum) |                                               |           | 0.01             | /             | N.D.                |
| 23                                  | 1,4-Phenylenediamine                          | 106-50-3  | /                | 0.002         | N.D.                |
| 24                                  | 1,3-Phenylenediamine                          | 108-45-2  | /                | 0.002         | N.D.                |
| 25                                  | Aniline                                       | 62-53-3   | /                | 0.002         | N.D.                |
| 26                                  | 2,6-Dimethylaniline (2,6-DMA)                 | 87-62-7   | /                | 0.002         | N.D.                |
| 27                                  | 2,4'-Diaminodiphenylmethane                   | 1208-52-2 | /                | 0.002         | N.D.                |



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|            |                               |           |   |       |      |
|------------|-------------------------------|-----------|---|-------|------|
| 28         | 2,4-Dimethylaniline (2,4-DMA) | 95-68-1   | / | 0.002 | N.D. |
| 29         | 2,2'-Methylenedianiline       | 6582-52-1 | / | 0.002 | N.D. |
| Conclusion |                               |           |   |       | PASS |

## Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 6.4. Bisphenol A (BPA)

Test Method: With reference to EPA 3550C:2007, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

| Material No. | Limit (µg/kg) | RL (µg/kg) | Test Result (µg/kg) | Conclusion |
|--------------|---------------|------------|---------------------|------------|
| 5            | Not Detected  | 1          | N.D.                | PASS       |

### Note:

1. µg/kg = Microgram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 7.1. Overall Migration

Test Method: With reference to EN 1186-1:2002, EN 1186-3:2022

S/V ration: 1.13 dm<sup>2</sup> / 113 mL

| Simulant Used                                     | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |
|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------|
|                                                   |                                |                             | 4                                 |
| Overall Migration - 3% Acetic acid<br>(100°C, 1h) | 10                             | 1                           | N.D.                              |
| Overall Migration - 50% Ethanol<br>(100°C, 1h)    | 10                             | 1                           | N.D.                              |
| Conclusion                                        |                                |                             | PASS                              |

### Note:

1. mg/dm<sup>2</sup> = Milligram per square decimeter.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

## 7.2. Bisphenol A (BPA)

Test Method: With reference to EPA 3550C:2007, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

| Material No. | Limit (µg/kg) | RL (µg/kg) | Test Result (µg/kg) | Conclusion |
|--------------|---------------|------------|---------------------|------------|
| 4            | Not Detected  | 1          | N.D.                | PASS       |

### Note:

1. µg/kg = Microgram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 7.3. Specific migration of Bisphenol A (BPA)

Test Method: With reference to EN 13130-13:2004, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

Test Condition: 3% acetic acid, 70°C, 2h

| Test Item                               | Limit<br>(mg/kg) | RL<br>(mg/kg) | Test Result (mg/kg) |  |  |
|-----------------------------------------|------------------|---------------|---------------------|--|--|
|                                         |                  |               | 4                   |  |  |
| Specific migration of Bisphenol A (BPA) | 0.05             | 0.01          | N.D.                |  |  |
| Conclusion                              |                  |               | PASS                |  |  |

### Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

## 8.1. Overall Migration

Test Method: With reference to the Annex III to Arrêté du 25 novembre 1992

S/V ratio: 1.13 dm<sup>2</sup> / 113 mL

| Simulant Used                                     | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |      |      |
|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------|------|------|
|                                                   |                                |                             | 4                                 |      |      |
| Overall Migration - 3% Acetic acid<br>(100°C, 1h) | 10                             | 1                           | N.D.                              | N.D. | N.D. |
| Overall Migration - 50% Ethanol<br>(100°C, 1h)    | 10                             | 1                           | N.D.                              | N.D. | N.D. |
| Conclusion                                        |                                |                             | PASS                              |      |      |

### Note:

1. mg/dm<sup>2</sup> = Milligram per square decimeter.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 8.2. Volatile organic matter (VOM)

Test Method: With reference to the Annex III to Arrêté du 25 novembre 1992

Test Condition: 200°C, 4h

| Material No. | Limit (%) | RL (%) | Test Result (%) | Conclusion |
|--------------|-----------|--------|-----------------|------------|
| 4            | 0.5       | 0.1    | 0.3             | PASS       |

### Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

## 8.3. Peroxide Value

Test Method: With reference to the French pharmacopeia, 9th edition

| Material No. | Limit    | Test Result | Conclusion |
|--------------|----------|-------------|------------|
| 4            | Negative | Negative    | PASS       |

## 8.4. Specific migration of organotin (As Tin)

Test Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX

| Test Item  | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) |
|------------|---------------|------------|---------------------|
|            |               |            | 4                   |
| Tin        | 0.1           | 0.1        | N.D.                |
| Conclusion |               |            | PASS                |

### Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 8.5. Bisphenol A (BPA)

Test Method: With reference to EPA 3550C:2007, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

| Material No. | Limit (µg/kg) | RL (µg/kg) | Test Result (µg/kg) | Conclusion |
|--------------|---------------|------------|---------------------|------------|
| 4            | Not Detected  | 1          | N.D.                | PASS       |

### Note:

1. µg/kg = Microgram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

## 8.6. Specific migration of Bisphenol A (BPA)

Test Method: With reference to EN 13130-13:2004, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

Test Condition: 3% acetic acid, 70°C, 2h

| Test Item                               | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) |
|-----------------------------------------|---------------|------------|---------------------|
|                                         |               |            | 4                   |
| Specific migration of Bisphenol A (BPA) | 0.05          | 0.01       | N.D.                |
| Conclusion                              |               |            | PASS                |

### Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



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## 9. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

|                     |        |   |   |       |   |   |          |   |   |                                                       |   |   |
|---------------------|--------|---|---|-------|---|---|----------|---|---|-------------------------------------------------------|---|---|
| Material No.        | 8      |   |   |       |   |   |          |   |   |                                                       |   |   |
| Triplicate          | A      | B | C | A     | B | C | A        | B | C | A                                                     | B | C |
| Inspection criteria | Color* |   |   | Gloss |   |   | Clouding |   |   | Resistant deposits and iridescent layers <sup>#</sup> |   |   |
| Inspector 1         | 0      | 0 | 0 | 0     | 0 | 0 | 0        | 0 | 0 | 0                                                     | 0 | 0 |
| Inspector 2         | 0      | 0 | 0 | 0     | 0 | 0 | 0        | 0 | 0 | 0                                                     | 0 | 0 |
| Average Value       | 0      |   |   | 0     |   |   | 0        |   |   | 0                                                     |   |   |

### Remark:

- 1, \* = If several colors are present on one article to be inspected, the color with the greatest change shall be chosen.
- 2, # = For the elimination of easily removable deposits.

### Evaluation of inspection criteria:

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

### Note:

- 1, Sample photos are for reference only. Actual colors of the photos may vary due to lighting and output process.
- 2, Requirements quoted from the Clause 5.4 of the 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 safely cleaned in a dishwasher shall, on average, 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).



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## Test Material(s) List

| Material No. | Description                                            | Location            | Material        |
|--------------|--------------------------------------------------------|---------------------|-----------------|
| 1            | Black coating                                          | Bottle body coating | /               |
| 2            | Silvery metal                                          | Bottle body         | /               |
| 3            | Silvery metal                                          | Bottle liner        | Stainless steel |
| 4            | Transparent white silicone                             | Sealing ring        | Silicone        |
| 5            | Black plastic                                          | Cover               | PP              |
| 6            | Silvery metal                                          | Joint ring          | /               |
| 7            | Silvery metal                                          | Buckle              | /               |
| 8            | Whole product (Except for buckle & joint ring) - Black | /                   | /               |

## Photo Appendix



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Additional Photo Appendix



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