



# TEST REPORT

Report No.: CCI260400835EN

Report Date: Apr. 24, 2026

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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** : Glass lunchbox with PP lid

**Model/Item No.** : MO9923

**Vendor Code** : 107978

**Test Period** : From Apr. 14, 2026 to Apr. 24, 2026

**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.

Room 701, Building 2, No.89, Majun Street, Nansha District, Guangzhou, Guangdong, China

Tel: +86-20-84900678 Fax: +86-20-84910993

Email: cs@ccilab.com.cn Website: www.ccilab.com.cn

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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)<br>No.1907/2006 - Cadmium (Cd)                                                                                                                                                                                                                                                                                                                            | PASS       |
| 2   | Tested material(s) of submitted sample(s) | Entry 50 of Annex XVII to the REACH Regulation (EC)<br>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)<br>No.1907/2006 - Phthalate                                                                                                                                                                                                                                                                                                                            | PASS       |
| 4   | Tested material(s) of submitted sample(s) | Entry 63 of Annex XVII to the REACH Regulation (EC)<br>No.1907/2006 - Lead (Pb)                                                                                                                                                                                                                                                                                                                               | PASS       |
| 5   | 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>- Isooctane<br>- 95% Ethanol<br>- Specific migration of restricted substances<br>- Specific migration of Primary Aromatic Amines<br>- Bisphenol A (BPA) content | PASS       |
| 6   | Tested material(s) of submitted sample(s) | European Council Directive 84/500/EEC and its amendment Commission Directive 2005/31/EC for ceramic articles intended to come into contact with foodstuffs<br>- Migration Lead and Cadmium                                                                                                                                                                                                                    | 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>- Isooctane<br>- 95% Ethanol<br>- Bisphenol A (BPA)                                                                                                                                                             | PASS       |



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| No. | TESTED SAMPLES                            | STANDARD / REQUIREMENT                                                                                                                                                                                                                                               | CONCLUSION |
|-----|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 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>- Isooctane<br>- 95% Ethanol<br>- Volatile Organic matter (VOM)<br>- Peroxide Value<br>- Specific migration of organotin (As Tin)<br>- Bisphenol A (BPA) | PASS       |
| 9   | Submitted sample(s)                       | Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003                                                                                                                                                                     | PASS       |
| 10  | Submitted sample(s)                       | Thermal shock - EN 1183:1997 method B                                                                                                                                                                                                                                | SEE RESULT |
| 11  | Submitted sample(s)                       | Microwave safe test                                                                                                                                                                                                                                                  | 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+2          | 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+2                 |
| Benzo[a]pyrene (BaP)           | 50-32-8  | 0.2        | N.D.                |
| Benzo[e]pyrene (BeP)           | 192-97-2 | 0.2        | N.D.                |
| Benzo[a]anthracene (BaA)       | 56-55-3  | 0.2        | N.D.                |
| Chrysen (CHR)                  | 218-01-9 | 0.2        | N.D.                |
| Benzo[b]fluoranthene (BbFA)    | 205-99-2 | 0.2        | N.D.                |
| Benzo[j]fluoranthene (BjFA)    | 205-82-3 | 0.2        | N.D.                |
| Benzo[k]fluoranthene (BkFA)    | 207-08-9 | 0.2        | N.D.                |
| Dibenzo[a,h]anthracene (DBAhA) | 53-70-3  | 0.2        | N.D.                |
| Conclusion                     |          |            | 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+2             |
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | 0.003  | 0.1       | N.D.            |
| Dibutyl phthalate (DBP)            | 84-74-2                  | 0.003  | 0.1       | N.D.            |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | 0.003  | 0.1       | N.D.            |
| Diisobutyl phthalate (DIBP)        | 84-69-5                  | 0.003  | 0.1       | N.D.            |
| Sum                                |                          | /      | 0.1       | N.D.            |
| Di-isononyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | 0.005  | 0.1       | N.D.            |
| Di-isodecyl phthalate (DIDP)       | 26761-40-0<br>68515-49-1 | 0.005  | 0.1       | N.D.            |
| Di-n-octyl phthalate (DNOP)        | 117-84-0                 | 0.003  | 0.1       | N.D.            |
| Sum                                |                          | /      | 0.1       | N.D.            |
| Conclusion                         |                          |        |           | 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+2          | 500           | 2          | N.D.                | PASS       |
| 3            | 500           | 2          | N.D.                | PASS       |

### Note:

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

## 5.1. Overall Migration

Test Method: With reference to EN 1186-1:2002, EN 1186-3:2022, EN 1186-14:2002

S/V ration: 1.00 dm<sup>2</sup> / 100 mL

| Simulant Used                                  | Limit (mg/dm <sup>2</sup> ) | RL (mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |
|------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|
|                                                |                             |                          | 1                                 |
| Overall Migration - 3% Acetic acid (100°C, 1h) | 10                          | 1                        | N.D.                              |
| Overall Migration - 50% Ethanol (100°C, 1h)    | 10                          | 1                        | N.D.                              |
| Overall Migration - Isooctane (60°C, 1h)       | 10                          | 1                        | N.D.                              |
| Overall Migration - 95% Ethanol (60°C, 3h)     | 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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## 5.2. 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: 1.00 dm<sup>2</sup> / 167 mL

| Test Item       | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) |
|-----------------|---------------|------------|---------------------|
|                 |               |            | 1                   |
| 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                |



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**Note:**

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



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5.3. 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 ratio: 1.00 dm<sup>2</sup> / 167 mL

| No.                                 | Test Item                                 | CAS No.   | Limit (mg/kg) | RL (mg/kg) | Test Result (mg/kg) |
|-------------------------------------|-------------------------------------------|-----------|---------------|------------|---------------------|
|                                     |                                           |           |               |            | 1                   |
| 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-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.

#### 5.4. 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 |
|--------------|---------------|------------|---------------------|------------|
| 1            | 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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## 6. Migration Lead and Cadmium

Test Method: With reference to 84/500/EEC & 2005/31/EC, the analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Condition: 4% Acetic acid, 22°C, 24h

Category 2

| Test Item    | Depth(mm) | Volume (mL) | Test Result (mg/L) | Conclusion |
|--------------|-----------|-------------|--------------------|------------|
|              |           |             | 3                  |            |
| Lead (Pb)    | 46        | 885         | < 0.1              | PASS       |
| Cadmium (Cd) | 46        | 885         | < 0.01             | PASS       |

## Limit:

| Category   |                                                                                                                 | Limit                 |                        |
|------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|
|            |                                                                                                                 | Lead (Pb)             | Cadmium (Cd)           |
| Category 1 | Articles that cannot be filled and articles that can be filled the internal depth of which does not exceed 25mm | 0.8mg/dm <sup>2</sup> | 0.07mg/dm <sup>2</sup> |
| Category 2 | Articles, not in categories 1 or 3, which can be filled                                                         | 4.0mg/L               | 0.3mg/L                |
| Category 3 | Cooking ware, packaging and storage vessels having a capacity of more than three liters                         | 1.5mg/L               | 0.1mg/L                |

## Note:

1. mg/L = Milligram per liter.
2. mg/dm<sup>2</sup> = Milligram per square decimetre.
3. < = Less than.



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## 7.1. Overall Migration

Test Method: With reference to EN 1186-1:2002, EN 1186-3:2022, EN 1186-14:2002

S/V ration: 1.01 dm<sup>2</sup> / 101 mL

| Simulant Used                                     | Limit<br>(mg/dm <sup>2</sup> ) | RL<br>(mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |
|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------|
|                                                   |                                |                             | 2                                 |
| 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.                              |
| Overall Migration - Isooctane<br>(60°C, 1h)       | 10                             | 1                           | N.D.                              |
| Overall Migration - 95% Ethanol<br>(60°C, 3h)     | 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 |
|--------------|---------------|------------|---------------------|------------|
| 2            | 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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## 8.1. Overall Migration

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

S/V ration: 1.01 dm<sup>2</sup> / 101 mL

| Simulant Used                                  | Limit (mg/dm <sup>2</sup> ) | RL (mg/dm <sup>2</sup> ) | Test Result (mg/dm <sup>2</sup> ) |
|------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|
|                                                |                             |                          | 2                                 |
| Overall Migration - 3% Acetic acid (100°C, 1h) | 10                          | 1                        | N.D.                              |
| Overall Migration - 50% Ethanol (100°C, 1h)    | 10                          | 1                        | N.D.                              |
| Overall Migration - Isooctane (60°C, 1h)       | 10                          | 1                        | N.D.                              |
| Overall Migration - 95% Ethanol (60°C, 3h)     | 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.

## 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 |
|--------------|-----------|--------|-----------------|------------|
| 2            | 0.5       | 0.1    | 0.3             | PASS       |

### Note:

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



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## 8.3. Peroxide Value

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

| Material No. | Limit    | Test Result | Conclusion |
|--------------|----------|-------------|------------|
| 2            | 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) |
|------------|---------------|------------|---------------------|
|            |               |            | 2                   |
| 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.

## 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 |
|--------------|---------------|------------|---------------------|------------|
| 2            | 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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## 9. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

| Material No.        | 4      |   |   |       |   |   |          |   |   |                                           |   |   |
|---------------------|--------|---|---|-------|---|---|----------|---|---|-------------------------------------------|---|---|
| Triplicate          | A      | B | C | A     | B | C | A        | B | C | A                                         | B | C |
| Inspection criteria | Color* |   |   | Gloss |   |   | Clouding |   |   | Resistant deposits and iridescent layers# |   |   |
| 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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## 10. Thermal shock

Test Method: With reference to EN 1183:1997 method B.

|                                              |                                |                             |                |                         |
|----------------------------------------------|--------------------------------|-----------------------------|----------------|-------------------------|
| Test material No.                            |                                | 3                           |                |                         |
| Number of test sample                        |                                | 10                          |                |                         |
| Test sample material type                    |                                | Glass                       |                |                         |
| Test method                                  |                                | Test method B               |                |                         |
| Temperature of sample (°C)                   | Temperature of water bath (°C) | Temperature difference (°C) | No. of failure | Cumulative failure in % |
| 100                                          | 20                             | 80                          | 0              | 0                       |
| 110                                          | 20                             | 90                          | 0              | 0                       |
| 120                                          | 20                             | 100                         | 0              | 0                       |
| 140                                          | 20                             | 120                         | 0              | 0                       |
| 160                                          | 20                             | 140                         | 0              | 0                       |
| 180                                          | 20                             | 160                         | 0              | 0                       |
| 200                                          | 20                             | 180                         | 0              | 0                       |
| 220                                          | 20                             | 200                         | 0              | 0                       |
| 240                                          | 20                             | 220                         | 5              | 50                      |
| 260                                          | 20                             | 240                         | 4              | 90                      |
| 280                                          | 20                             | 260                         | 1              | 100                     |
| Thermal shock endurance $\Delta t_{50}$ (°C) |                                |                             | 220            |                         |
| Standard deviation (°C)                      |                                |                             | 2.4            |                         |



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## 11. Microwave safe test

Test Method: With reference to BS EN 15284:2007

- Materials and articles in contact with food stuffs - Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware

No. of specimen

|                                |   |
|--------------------------------|---|
| Test material No.              | 4 |
| Number of tested sample(s)     | 3 |
| Number of controlled sample(s) | 1 |

**Test Result: PASS**

- 1) Visually inspect the test specimen: No visible change.
- 2) The highest surface temperature: 38 °C (after the short period)  
42 °C (after the long period)

### Note:

Test requirement:

1. Visually inspect the test specimen for damage according to the criteria in next table :

| Material             | Cracking | Crazing      | Scaling      | Color        | Melting      | Deformation | Suitability for re-use | Charring |
|----------------------|----------|--------------|--------------|--------------|--------------|-------------|------------------------|----------|
| Ceramic              | +        | <sup>a</sup> | <sup>b</sup> | <sup>c</sup> |              |             |                        |          |
| Glass, glass-ceramic | +        |              | <sup>b</sup> | <sup>c</sup> |              |             |                        |          |
| Plastic              | +        |              |              | <sup>c</sup> | <sup>d</sup> | +           | <sup>e</sup>           | +        |

(+)=to be inspected

<sup>a</sup> refers to the glaze

<sup>b</sup> refers to on-glaze decoration

<sup>c</sup> if several colors are present on one article to be inspected, the color with the greatest change shall be chosen

<sup>d</sup> article shall not be too soft to handle

<sup>e</sup> article shall be washable and stain resistant

1.1 For the color criterion, an inspector and inspection site that meet the requirements of Clause 4 and 5.2 of EN12875-2:2001 are required[2]

2. The maximum surface temperature of handles after the short period heating(6.6) shall not exceed the following limit values:

ceramic, glass-ceramic or glass: 56 °C

plastics: 60 °C

Compliance Control Institute (Guangzhou) Co., Ltd.

Room 701, Building 2, No.89, Majun Street, Nansha District, Guangzhou, Guangdong, China  
Tel: +86-20-84900678 Fax: +86-20-84910993  
Email: cs@ccilab.com.cn Website: www.ccilab.com.cn

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2.1 These temperatures can be found by reference to a one minute contact time in EN ISO 13732-1[1].

2.2 As temperatures measured after the long period of heating vary significantly depending on the microwave oven used for testing, no temperature limit values apart from those for handles are given.



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## Test Material(s) List

| Material No. | Description          | Location      | Material |
|--------------|----------------------|---------------|----------|
| 1            | Translucent plastic  | Cover         | PP       |
| 2            | Transparent silicone | Sealing ring  | Silicone |
| 3            | Transparent glass    | Lunchbox body | /        |
| 4            | Whole product        | /             | /        |

## Photo Appendix



★★★★★End of Report★★★★★