# TEST REPORT

**Technical Report:** **(5221)050-0218** February 25, 2021

Date Received: February 19, 2021 

Levin
Flashbay Electronics
Building 2, Jixun Industrial Park, Dong'ao Village, Shatian Town, Huiyang District,
Huizhou City, Guangdong Province, P.R. China

Sample Description: Sample(s) received is/are stated to be:
Travel cups

| | | | |
|---|---|---|---|
| Color: | / | Style No(s): | Crew-CW |
| Order No.: | / | PO No.: | / |
| Age Grade: | / | Product End Use: | / |
| Vendor: | / | Retest No.: | / |
| Manufacturer: | / | Supplier Reference: | / |
| Buyer: | / | Country of Origin: | / |
| Test Period: | February 19, 2021 - February 25, 2021 | Country of Destination: | / |
| Fiber Content: | / | | |
| Care Instruction: | / | | |

**SUMMARY OF TEST RESULTS**

| TEST REQUESTED | CONCLUSION | REMARK |
|---|---|---|
| MIGRATION OF SYNTHETIC CHEMICAL COLORS REQUIREMENTS (Japanese Food Sanitation Law, Section III "Implements, Containers, and Packaging") | PASS | |
| POLYETHYLENE TEREPHTHALATE (PET) - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, Section III "Implements, Containers and Packages", Subsection D.) | PASS | |
| RUBBER EXCEPT NURSING UTENSILS - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, Section III "Implements, Containers and Packages", Subsection D.) | PASS | |
| METALLIC CANS FOR FOODS (EXCEPT DRY FOOD) - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, III "Implements, Containers and Packages", Subsection D.) | PASS | |

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**REMARK**

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BUREAU VERITAS HONG KONG LTD.

MS. YANN LO
MANAGER, RS DEPARTMENT

## Photo of the Submitted Sample

# TEST RESULT

**MIGRATION OF SYNTHETIC CHEMICAL COLORS REQUIREMENTS (Japanese Food Sanitation Law, Section III "Implements, Containers, and Packaging")**

Test: Observation of dissolution of color in the leaching solution

Requirement: No dissolution of color shall be observed in the leaching solution

| | Color / Component | Location | Style |
|---|---|---|---|
| A. | Transparent grey plastic | lid, Tritan | - |
| B. | Translucent plastic | seal ring, Silicone | - |
| C. | Silvery metal | cup, SUS304 | - |

| Leaching solution | Leaching conditions | Result | | |
|---|---|---|---|---|
| | | Sample ID | | |
| | | A. | B. | C. |
| Water | At 60°C, for 30 minutes | Not recognized | Not recognized | N/A |
| 4% acetic acid | At 60°C, for 30 minutes | Not recognized | Not recognized | N/A |
| Heptane | At 25°C, for 1 hour | Not recognized | Not recognized | N/A |
| 20% ethanol | At 60°C, for 30 minutes | Not recognized | Not recognized | N/A |
| | Conclusion | Pass | Pass | - |

Recognized = Dissolution of color is/are observed when comparing with blank leaching solution(s).
Not Recognized = Dissolution of color is/are **NOT** observed when comparing with blank leaching solution(s).
N/A = Not applicable

# TEST RESULT

**POLYETHYLENE TEREPHTHALATE (PET) - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, Section III "Implements, Containers and Packages", Subsection D.)**

Reference: Specifications and Standards for Foods, Food Additives, Etc. under the Food Sanitation Law (Abstracts), 2008, Section III - Apparatus and container-packages.

| Sample Identity | Test Component | Location | Style |
|---|---|---|---|
| A. | Transparent grey plastic | lid, Tritan | - |

| Parameter | | Result | Limit | Conclusion |
|---|---|---|---|---|
| **I) General Requirement** Material Test | | | | |
| • Cadmium | | LT 25 µg/g | 100 µg/g | Pass |
| • Lead | | LT 25 µg/g | 100 µg/g | Pass |
| Elution Test | Leaching conditions | | | |
| • Heavy metals (as lead) (4% Acetic acid) | At 60 °C, for 30 minutes | LT 1 µg/ml | 1 µg/ml | Pass |
| • Consumption of potassium permanganate ($KMnO_4$) (Water) | At 60 °C, for 30 minutes | 2.11 µg/ml | 10 µg/ml | Pass |
| **II) Individual Requirement** | | | | |
| • Antimony (4% Acetic acid) | At 60 °C, for 30 minutes | LT 0.05 µg/ml | 0.05 µg/ml | Pass |
| • Germanium (4% Acetic acid) | At 60 °C, for 30 minutes | LT 0.1 µg/ml | 0.1 µg/ml | Pass |
| • Evaporation residue | | | | |
| - n-Heptane | At 25°C, for 60 minutes | LT 5 µg/ml | 30 µg/ml | Pass |
| - 20% Ethanol | At 60°C, for 30 minutes | LT 5 µg/ml | 30 µg/ml | Pass |
| - Water | At 60 °C, for 30 minutes | LT 5 µg/ml | 30 µg/ml | Pass |
| - 4% Acetic acid | At 60 °C, for 30 minutes | 5.21 µg/ml | 30 µg/ml | Pass |

*LT* = *Less than* *ppm* = *parts per million (micrograms per milliliters)*
*GT* = *Greater than*

Note: According to the Japanese Food Sanitation Law, Section III "Equipment and Packages", Subsection F- Standards of manufacture of equipment and packages, Paragraph 2, the synthetic chemical colors used in the manufacture of equipment or packages shall be colors listed in the Attached Table 2 of the Food Sanitation Law Enforcement Regulations (Ministry of Health and Welfare Ordinance No. 23, 1948).

# TEST RESULT

**RUBBER EXCEPT NURSING UTENSILS - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, Section III "Implements, Containers and Packages", Subsection D.)**

Reference: Specifications and Standards for Foods, Food Additives, Etc. under the Food Sanitation Law (Abstracts), 2008, Section III - Apparatus and container-packages including amendments of Ministry of Health and Welfare Ordinance No. 595, 2012.

| Sample Identity | Test Component | Location | Style |
|---|---|---|---|
| B. | Translucent plastic | seal ring, Silicone | - |

| Parameter | | Result | Limit | Conclusion |
|---|---|---|---|---|
| **I) Requirement** | | | | |
| Material Test | | | | |
| • Cadmium | | LT 25 µg/g | 100 µg/g | Pass |
| • Lead | | LT 25 µg/g | 100 µg/g | Pass |
| Elution Test | Leaching conditions | | | |
| • Heavy metals ( 4% Acetic acid ) | At 60°C, for 30 minutes | LT 1 µg/ml | 1 µg/ml | Pass |
| • 2-Mercaptoimidazoline | | -ve | -ve | Pass |
| • Phenol ( Water ) | At 60°C, for 30 minutes | LT 5 µg/ml | 5 µg/ml | Pass |
| • Formaldehyde ( Water ) | At 60°C, for 30 minutes | -ve | -ve | Pass |
| • Zinc ( 4% Acetic acid ) | At 60°C, for 30 minutes | LT 15 µg/ml | 15 µg/ml | Pass |
| • Evaporation residue | | | | |
| - Water | At 60°C, for 30 minutes | 6.39 µg/ml | 60 µg/ml | Pass |

*+ve* = *Positive*
*-ve* = *Negative*
*LT* = *Less than*
*GT* = *Greater than*

Note: According to the Japanese Food Sanitation Law, Section III "Equipment and Packages", Subsection F- Standards of manufacture of equipment and packages, Paragraph 2, the synthetic chemical colors used in the manufacture of equipment or packages shall be colors listed in the Attached Table 2 of the Food Sanitation Law Enforcement Regulations (Ministry of Health and Welfare Ordinance No. 23, 1948).

# TEST RESULT

**METALLIC CANS FOR FOODS (EXCEPT DRY FOOD) - SPECIFICATIONS OF PACKAGES, AND THEIR MATERIALS BY MATERIALS (Japanese Food Sanitation Law, III "Implements, Containers and Packages", Subsection D.)**

Reference: Specifications and Standards for Foods, Food Additives, Etc. under the Food Sanitation Law (Abstracts), 2008, Section III - Apparatus and container-packages.

| Sample Identity | Test Component | Location | Style |
|---|---|---|---|
| C. | Silvery metal | cup, SUS304 | - |

| Material Type: | | Metallic Cans for Foods (Except Dry Food) | | |
|---|---|---|---|---|
| Parameter | | Result (ppm) | Limit (ppm) | Conclusion |
| **II) Individual Requirement** | | | | |
| Elution Test | | | | |
| • Arsenic | | | | |
| - Water | At 60°C, for 30 minutes | LT 0.2 | 0.2 | Pass |
| - 0.5% citric acid | At 60°C, for 30 minutes | LT 0.2 | 0.2 | Pass |
| • Lead | | | | |
| - Water | At 60°C, for 30 minutes | LT 0.4 | 0.4 | Pass |
| - 0.5% citric acid | At 60°C, for 30 minutes | LT 0.4 | 0.4 | Pass |
| • Cadmium | | | | |
| - Water | At 60°C, for 30 minutes | LT 0.1 | 0.1 | Pass |
| - 0.5% citric acid | At 60°C, for 30 minutes | LT 0.1 | 0.1 | Pass |

*+ ve* = *Positive*
*- ve* = *Negative*
*ppm* = *parts per million (= milligrams per kilogram)*
*LT* = *Less than*
*GT* = *Greater than*

Note: According to the Japanese Food Sanitation Law, Section III "Equipment and Packages", Subsection F- Standards of manufacture of equipment and packages, Paragraph 2, the synthetic chemical colors used in the manufacture of equipment or packages shall be colors listed in the Attached Table 2 of the Food Sanitation Law Enforcement Regulations (Ministry of Health and Welfare Ordinance No. 23, 1948).

END