

TEST REPORT

Technical Report: (5221)068-0431 March 11, 2021

Date Received: March 9, 2021 Page 1 of 7

Levin

Flashbay Electronics

Care Instruction:

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): | Rondo-RD |
|----------------|--------------------------------|-------------------------|----------|
| Order No.: | / | PO No.: | / |
| Age Grade: | / | Product End Use: | / |
| Vendor: | / | Retest No.: | / |
| Manufacturer: | / | Supplier Reference: | / |
| Buyer: | / | Country of Origin: | / |
| Test Period: | March 9, 2021 - March 11, 2021 | Country of Destination: | / |
| Fiber Content: | / | • | |

SUMMARY OF TEST RESULTS

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

DK

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REMARKIf there are questions or concerns on this report, please contact:

(852) 2331 0330 analytical-enquiry@hk.bureauveritas.com

BUREAU VERITAS HONG KONG LTD.

MS. YANN LO

MANAGER, RS DEPARTMENT



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Photo of the Submitted Sample





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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 | - |

| | | Result | | | |
|----------------------------------------|---------------------|----------------|----------------|----------------------|--|
| Leaching solution | Leaching conditions | | Sample ID | | |
| | | A* | B* | C* ed N/A ed N/A N/A | |
| 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 Recognized | Dissolution of color is/are observed when comparing with blank leaching solution(s).

N/A = Not applicable



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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 LT 25 μg/g | 100 μg/g 100 μg/g | Pass Pass |
| • | Lead Elution Test | Leaching conditions | Ε1 23 μg/g | 100 μg/g | 1 ass |
| • | 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 | | | l | |
| • | 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).



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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 | At 60°C, | LT 1 µg/ml | 1 μg/ml | Pass |
| (4% Acetic acid) | for 30 minutes | | | |
| 2-Mercaptoimidazoline | | -ve | -ve | Pass |
| Phenol (Water) | At 60°C, | LT 5 µg/ml | 5 μg/ml | Pass |
| | for 30 minutes | | | |
| Formaldehyde (Water) | At 60°C, | -ve | -ve | Pass |
| • , , , , | for 30 minutes | | | |
| • Zinc (4% Acetic acid) | At 60°C, | LT 15 µg/ml | 15 μg/ml | Pass |
| | for 30 minutes | | | |
| Evaporation residue | | | | |
| - Water | At 60°C, | 6.39 µg/ml | 60 μg/ml | Pass |
| | for 30 minutes | | | |

+ve = Positive LT = Less than-ve = Negative 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).



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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 | r Foods (Except D | ry Food) |
|----------------------------|----------------|-------------------|-------------------|------------|
| Parameter | | Result (ppm) | Limit (ppm) | Conclusion |
| II) Individual Requirement | | | | |
| | | | | |
| Elution Test | | | | |
| Arsenic | | | | |
| - Water | At 60°C, | LT 0.2 | 0.2 | Pass |
| - water | for 30 minutes | | | |
| - 0.5% citric acid | At 60°C, | LT 0.2 | 0.2 | Pass |
| - 0.5 % citric acid | for 30 minutes | | | |
| Lead | | | | |
| - Water | At 60°C, | LT 0.4 | 0.4 | Pass |
| - water | for 30 minutes | | | |
| - 0.5% citric acid | At 60°C, | LT 0.4 | 0.4 | Pass |
| - 0.5 % citric acid | for 30 minutes | | | |
| Cadmium | | | | |
| - Water | At 60°C, | LT 0.1 | 0.1 | Pass |
| - water | for 30 minutes | | | |
| - 0.5% citric acid | At 60°C, | LT 0.1 | 0.1 | Pass |
| - 0.5 % citile acid | for 30 minutes | | | |

 $\begin{array}{cccc} + ve & = Positive & LT & = Less than \\ - ve & = Negative & GT & = Greater than \end{array}$

ppm = parts per million (= milligrams per kilogram)

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).

The above result(s) marked with * is(are) transferred from (5221)050-0218 dated February 25, 2021.

<u>END</u>