



TEST REPORT

Technical Report: (5220)363-0529-R1

January 14, 2021

The report is amendment of and supersedes the previous report (5220)363-0529 dated January 13, 2021

Date Received: December 28, 2020

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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):	EcoSip
Order No.:	/	PO No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	FLASHBAY ELECTRONICS	Supplier Reference:	/
Buyer:	/	Country of Origin:	/
Test Period:	December 28, 2020 - January 13, 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 (PE) AND POLYPROPYLENE (PP) - 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	

DK

REMARK

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

(852) 2331 0330
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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	Black plastic	lid, PP	-
B	Black plastic	seal stopper on lid, TPR	-
C	Translucent plastic	seal ring, Silicone	-
D	Silvery metal	inner cup body, SUS304	-

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

Leaching solution	Leaching conditions	Result		
		Sample ID		
		D	-	-
Water	At 60°C, for 30 minutes	N/A	-	-
4% acetic acid	At 60°C, for 30 minutes	N/A	-	-
Heptane	At 25°C, for 1 hour	N/A	-	-
20% ethanol	At 60°C, for 30 minutes	N/A	-	-
Conclusion		-	-	-

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



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POLYETHYLENE (PE) AND POLYPROPYLENE (PP) - 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.	Black plastic	lid, PP	-

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 (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	LT 1.0 µg/ml	10 µg/ml	Pass
II) Individual Requirement					
• Evaporation residue					
- n-Heptane (sample used at temperature 100°C or less)	At 25°C, for 60 minutes	14.3 µg/ml	150 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	9.30 µg/ml	30 µg/ml	Pass	
- 4% Acetic acid	At 60°C, for 30 minutes	LT 5 µg/ml	30 µg/ml	Pass	

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).



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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	Black plastic	seal stopper on lid, TPR	-
C	Translucent plastic	seal ring, Silicone	-

Parameter		Result	Limit	Conclusion
I) Requirement		B		
Material Test				
• Cadmium		LT25 µg/g	100 µg/g	Pass
• Lead		LT25 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	LT 5 µg/ml	60 µg/ml	Pass



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Parameter		Result	Limit	Conclusion
I) Requirement		C		
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	LT 5 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).



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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
D	Silvery metal	inner cup body, SUS304	-

Material Type:		Metallic Cans for Foods (Except Dry Food)		
Parameter		Result (ppm)	Limit (ppm)	Conclusion
		D		
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