

TEST REPORT

Applicant: FLASHBAY ELECTRONICS
BUILDING2 JIXUN INDUSTRIAL PARK XINJIAO
DONG'AO VILLAGE SHATIAN TOWN
HUIYANG DISTRICT HUIZHOU CITY
GUANGDONG PROVINCE P.R.CHINA

Number: HKGH02993442

Date: Apr 24, 2023

Sample and Information provided by customer :

Item Name : **water bottles**

Item No. : **MIX (MX)**

Quantity : **6 sets**

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>RequirementF</u>	<u>Result</u>
(1) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) - Coloring Matters	Pass
(2) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) - Synthetic Resin - Polypropylene	Pass
(3) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947) - Metal to be used for manufacture or repair	Pass
(4) Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959) and (Notification No. 595 of Ministry of Health, Labour and Welfare, amendment on 28/12/2012) under the Japan Food Sanitation Law (Law No. 233, 1947) - Rubber	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.qrd.by/decision-rule-doc>.

If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Chemical Properties on Coloring Matters

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233, 1947).

Component no.	Component description	Location	Material type provided by client
(A)	Black colour plastic	lid	PP
(B)	White colour plastic	lid	PP
(C)	Blue colour plastic	lid	PP
(D)	Green colour plastic	lid	PP
(E)	Translucent colour plastic	small bottle	PP
(G)	White silicone	Gasket	silicone

Requirement : No running of coloring matters was observed in the leaching solution

Leaching solution	Leaching condition	Result				
		(A)	(B)	(C)	(D)	(E)
n-Heptane	At 25°C for 1 hour	NR	NR	NR	NR	NR
20% Ethanol	At 60°C for 30 minutes	NR	NR	NR	NR	NR
Water	At 60°C for 30 minutes	NR	NR	NR	NR	NR
4% Acetic acid	At 60°C for 30 minutes	NR	NR	NR	NR	NR

Leaching solution	Leaching condition	Result
		(G)
20% Ethanol	At 60°C for 30 minutes	NR
Water	At 60°C for 30 minutes	NR
4% Acetic acid	At 60°C for 30 minutes	NR

Remark :

NR = No Running of coloring matters was observed

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(2) Chemical Properties for Synthetic Resin - Polypropylene

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233,1947).

Component no.	Component description	Location	Material type provided by client
(A)	Black colour plastic	lid	PP
(B)	White colour plastic	lid	PP
(C)	Blue colour plastic	lid	PP
(D)	Green colour plastic	lid	PP
(E)	Translucent colour plastic	small bottle	PP

Intended use of product: Temperature $\leq 100^{\circ}\text{C}$

Material type		Polypropylene (PP)			
Parameter		Result (A)	Result (B)	Limit	Conclusion
i) General requirement					
Elution test					
• Consumption of potassium permanganate		< 4 $\mu\text{g/ml}$	< 4 $\mu\text{g/ml}$	10 $\mu\text{g/ml}$	Pass
• Heavy metal (as lead)		< 1 $\mu\text{g/ml}$	< 1 $\mu\text{g/ml}$	1 $\mu\text{g/ml}$	Pass
Material test					
• Total cadmium (Cd)		< 5 $\mu\text{g/g}$	< 5 $\mu\text{g/g}$	100 $\mu\text{g/g}$	Pass
• Total lead (Pb)		< 5 $\mu\text{g/g}$	< 5 $\mu\text{g/g}$	100 $\mu\text{g/g}$	Pass
ii) Individual requirement					
Elution test					
• Evaporation residue	Leaching condition				
n-Heptane	At 25°C for 1 hour	< 10 $\mu\text{g/ml}$	< 10 $\mu\text{g/ml}$	150 $\mu\text{g/ml}$	Pass
20% Ethanol	At 60°C for 30 minutes	< 10 $\mu\text{g/ml}$	< 10 $\mu\text{g/ml}$	30 $\mu\text{g/ml}$	Pass
Water	At 60°C for 30 minutes	< 10 $\mu\text{g/ml}$	< 10 $\mu\text{g/ml}$	30 $\mu\text{g/ml}$	Pass
4% Acetic acid	At 60°C for 30 minutes	< 10 $\mu\text{g/ml}$	< 10 $\mu\text{g/ml}$	30 $\mu\text{g/ml}$	Pass



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Material type		Polypropylene (PP)			
Parameter		Result	Result	Limit	Conclusion
		(C)	(D)		
i) General requirement					
Elution test					
• Consumption of potassium permanganate		< 4 µg/ml	< 4 µg/ml	10 µg/ml	Pass
• Heavy metal (as lead)		< 1 µg/ml	< 1 µg/ml	1 µg/ml	Pass
Material test					
• Total cadmium (Cd)		< 5 µg/g	< 5 µg/g	100 µg/g	Pass
• Total lead (Pb)		< 5 µg/g	< 5 µg/g	100 µg/g	Pass
ii) Individual requirement					
Elution test					
• Evaporation residue	Leaching condition				
n-Heptane	At 25°C for 1 hour	< 10 µg/ml	< 10 µg/ml	150 µg/ml	Pass
20% Ethanol	At 60°C for 30 minutes	< 10 µg/ml	< 10 µg/ml	30 µg/ml	Pass
Water	At 60°C for 30 minutes	< 10 µg/ml	< 10 µg/ml	30 µg/ml	Pass
4% Acetic acid	At 60°C for 30 minutes	< 10 µg/ml	< 10 µg/ml	30 µg/ml	Pass

Material type		Polypropylene (PP)		
Parameter		Result	Limit	Conclusion
		(E)		
i) General requirement				
Elution test				
• Consumption of potassium permanganate		< 4 µg/ml	10 µg/ml	Pass
• Heavy metal (as lead)		< 1 µg/ml	1 µg/ml	Pass
Material test				
• Total cadmium (Cd)		< 5 µg/g	100 µg/g	Pass
• Total lead (Pb)		< 5 µg/g	100 µg/g	Pass
ii) Individual requirement				
Elution test				
• Evaporation residue	Leaching condition			
n-Heptane	At 25°C for 1 hour	< 10 µg/ml	150 µg/ml	Pass
20% Ethanol	At 60°C for 30 minutes	< 10 µg/ml	30 µg/ml	Pass
Water	At 60°C for 30 minutes	< 10 µg/ml	30 µg/ml	Pass
4% Acetic acid	At 60°C for 30 minutes	< 10 µg/ml	30 µg/ml	Pass



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Remark : $\mu\text{g/ml}$ = microgram per millilitre
 $\mu\text{g/g}$ = microgram per gram

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 Testing period : Apr 11, 2023 to Apr 20, 2023

(3) Chemical Properties for Metal to be Used for Manufacture or Repair

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959), under the Japan Food Sanitation Law (Law No. 233,1947).

Tested Component :	
(F)	Silver color metal (stirring ball) (Stainless steel)

Material type	Metal		
Parameter	Result	Limit	Conclusion
	(F)		
i) General requirement			
Material test			
• Total Lead (Pb)	<0.01 %	0.1 %	Pass
• Total Antimony (Sb)	<0.01 %	5 %	Pass

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(4) Chemical Properties for Synthetic Resin - Rubber

Test method: Specifications and Standards and Testing Methods of "Foodstuffs", "Implements", "Containers and Packaging", "Toys" and "Detergents", Section III - Apparatus and Containers and Packages, (Notification No. 370 of Ministry of Health, Labour and Welfare, 1959) and (Notification No. 595 of Ministry of Health, Labour and Welfare, amendment on 28/12/2012) under the Japan Food Sanitation Law (Law No. 233,1947).

Component no.	Component description	Location	Material type provided by client
(G)	White silicone	Gasket	silicone

Intended use of product: Temperature $\leq 100^{\circ}\text{C}$

Material type		Rubber		
Parameter		Result	Limit	Conclusion
		(G)		
i) Individual requirement				
Material test				
• Total cadmium (Cd)		< 5 µg/g	100 µg/g	Pass
• Total lead (Pb)		< 5 µg/g	100 µg/g	Pass
• Chlorine by Beilstein test		Negative	---	---
• 2-Mercaptoimidazoline		Not applicable	Negative	Not applicable
Elution test				
• Evaporation residue	Leaching condition			
20% Ethanol	At 60°C for 30 minutes	< 10 µg/ml	60 µg/ml	Pass
Water	At 60°C for 30 minutes	< 10 µg/ml	60 µg/ml	Pass
4% Acetic acid	At 60°C for 30 minutes	< 10 µg/ml	60 µg/ml	Pass
• Phenol	At 60°C for 30 minutes	< 0.5 µg/ml	5 µg/ml	Pass
• Formaldehyde	At 60°C for 30 minutes	Negative	Negative	Pass
• Zinc (Zn)	At 60°C for 30 minutes	< 1 µg/ml	15 µg/ml	Pass
• Heavy metal (as Lead)	At 60°C for 30 minutes	< 1 µg/ml	1 µg/ml	Pass

Remark : $\mu\text{g/g}$ = microgram per gram
 $\mu\text{g/ml}$ = microgram per millilitre

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Testing period : Apr 11, 2023 to Apr 20, 2023



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HKGH02993442-002



HKGH02993442-003



HKGH02993442-004



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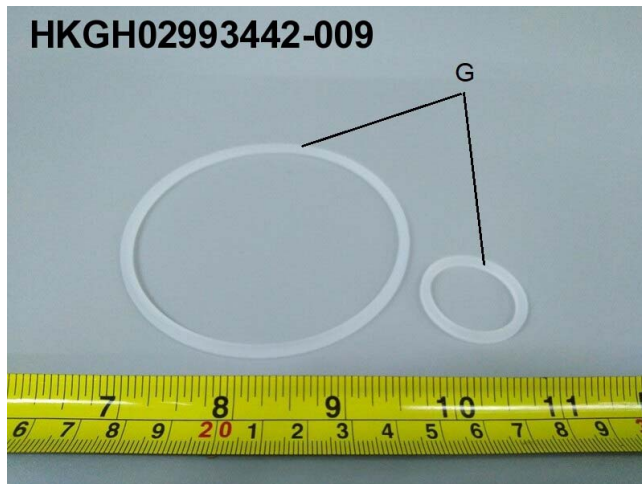
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End of report

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