

Applicant: FLASHBAY ELECTRONICS

BUILDING2, JIXUN INDUSTRIAL PARK, XINJIAO,DONG'AO VILLAGE, SHATIAN TOWN,

HUIYANG DISTRICT, HUIZHOU CITY, GUANGDONG PROVINCE, P.R.CHINA Number: HKGH02989797

Date: Apr 18, 2023

Sample and Information provided by customer:

Item Name Water bottles Item No. Flexi/FXI Quantity 14 pieces

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

Cindy I.K. Chan Vice President





HKGH02989797 Number:

Conclusion:

(2)

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:

Result 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, (1) **Pass**

1959), under the Japan Food Sanitation Law (Law No. 233, 1947) Coloring Matters

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, **Pass**

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)

- Synthetic Resin - Polystyrene

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, **Pass** (3)

1959), under the Japan Food Sanitation Law (Law No. 233, 1947)

- Synthetic Resin - Polypropylene

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, (4)**Pass** 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

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.grd.by/decision-rule-c If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "\infty" was shown as above table.





Number: HKGH02989797

(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 plastic	ABS	Container
(B)	Black soft plastic	Silicone	Container
(C)	Light grey soft plastic	Silicone	Container
(D)	White soft plastic	Silicone	Container
(E)	Translucent soft plastic	Silicone	Gasket
(F)	Black plastic	PP homopolymer	Lid

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

Leaching solution	Leaching condition	Result		
Loadining delation	Load mig condition	(A)	(F)	
n-Heptane	At 25°C for 1 hour	NR	NR	
20% Ethanol	At 60°C for 30 minutes	NR	NR	
Water	At 60°C for 30 minutes	NR	NR	
4% Acetic acid	At 60°C for 30 minutes	NR	NR	

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

Remark:

NR No Running of coloring matters was observed

Date sample received: Mar 29, 2023

Testing period: Mar 29, 2023 to Apr 17, 2023





Kowloon, Hong Kong



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(2) Chemical Properties for Synthetic Resin - Polystyrene

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 Apparatus and Welfare, 1959) and No. 384 (2012) and the labour Food Societies Labour 1978 (2012) and 1979 (2012) and 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
(A)	Black plastic	ABS	Container

Intended use of product: Temperature ≤ 100°C

Material type			Polystyrene (PS)		
Parameter		Result	Limit	Conclusion	
raiai	Helei	(A)		Conclusion	
i) General requirement					
Elution test					
Consumption of pota	assium permanganate	< 4 μg/ml	10 μg/ml	Pass	
Heavy metal (as lea	d)	< 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					
Material test					
Volatile substances (sum of styrene, toluene, ethylbenzene, isopropylbenzene and n-propyl-benzene)		< 1.0 mg/g	5 mg/g	Pass	
Elution test					
Evaporation residue Leaching condition					
n-Heptane	At 25°C for 1 hour	< 10 µg/ml	240 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	

Remark: µg/ml = microgram per millilitre

μg/g = microgram per gram mg/g = milligram per gram

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(3)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
(F)	Black plastic	PP homopolymer	Lid

Intended use of product: Temperature ≤ 100°C

Material type		F	Polypropylene (PP)	
Para	meter	Result	Limit	Conclusion
i ara	motor	(F)	Lillie	
i) General requirement				
Elution test				
Consumption of pota	assium permanganate	< 4 µg/ml	10 μg/ml	Pass
Heavy metal (as lead	d)	< 1 µg/ml	1 μg/ml	Pass
Material test	Material test			
Total cadmium (Cd)		< 5 μg/g	100 μg/g	Pass
Total lead (Pb)	Total lead (Pb)		100 μg/g	Pass
ii) Individual requireme	ent			
Elution test				
Evaporation residue	Leaching condition			
n-Heptane At 25°C for 1 hour		13 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

Remark: µg/ml = microgram per millilitre

µg/g = microgram per gram

Date sample received: Mar 29, 2023

Testing period: Mar 29, 2023 to Apr 17, 2023







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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
(B)	Black soft plastic	Silicone	Container
(C)	Light grey soft plastic	Silicone	Container
(D)	White soft plastic	Silicone	Container
(E)	Translucent soft plastic	Silicone	Gasket

Intended use of product: Temperature ≤ 100°C

Material type		Rubber			
Para	Parameter		Result		Conclusion
1 die	inicici	(B)	(C)	Limit	Conclusion
i) Individual requirement					
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
Chlorine by Beilstein test		Negative	Negative		
2-Mercaptoimidazoline		Not applicable	Not applicable	Negative	Not applicable
Elution test					
Evaporation residue	Leaching condition				
20% Ethanol	At 60°C for 30 minutes	12 μg/ml	17 μg/ml	60 µg/ml	Pass
Water	At 60°C for 30 minutes	12 μg/ml	17 μg/ml	60 µg/ml	Pass
4% Acetic acid	At 60°C for 30 minutes	14 μg/ml	16 μg/ml	60 µg/ml	Pass
 Phenol 	At 60°C for 30 minutes	< 0.5 µg/ml	< 0.5 μg/ml	5 µg/ml	Pass
 Formaldehyde 	At 60°C for 30 minutes	Negative	Negative	Negative	Pass
• Zinc (Zn)	At 60°C for 30 minutes	< 1 µg/ml	< 1 µg/ml	15 μg/ml	Pass
Heavy metal (as Lead)	At 60°C for 30 minutes	< 1 μg/ml	< 1 µg/ml	1 µg/ml	Pass







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Material type		Rubber			
Parameter		Result		Limit	Conclusion
		(D)	(E)		Conclusion
i) Individual requirement					
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
Chlorine by Beilstein test		Negative	Negative		
2-Mercaptoimidazoline		Not applicable	Not applicable	Negative	Not applicable
Elution test					
 Evaporation residue 	Leaching condition				
20% Ethanol	At 60°C for 30 minutes	< 10 µg/ml	15 μg/ml	60 µg/ml	Pass
Water	At 60°C for 30 minutes	< 10 µg/ml	15 μg/ml	60 µg/ml	Pass
4% Acetic acid	At 60°C for 30 minutes	13 μg/ml	15 μg/ml	60 µg/ml	Pass
 Phenol 	At 60°C for 30 minutes	< 0.5 µg/ml	< 0.5 μg/ml	5 µg/ml	Pass
Formaldehyde	At 60°C for 30 minutes	Negative	Negative	Negative	Pass
Zinc (Zn)	At 60°C for 30 minutes	< 1 µg/ml	< 1 µg/ml	15 μg/ml	Pass
Heavy metal (as Lead)	At 60°C for 30 minutes	< 1 μg/ml	< 1 μg/ml	1 µg/ml	Pass

Remark : $\mu g/g = microgram per gram$ $<math>\mu g/ml = microgram per millilitre$

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End of report

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