

Test Report

No. HKGEC1900675702

Date : 04 May 2020

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FLASHBAY ELECTRONICS
1-4/F OF BLDG NO.3, BLDG NO. 2, 101-501F OF BLDG NO.1
XIFENGCHENG INDUSTRIAL PARK, NO.2, FUYUAN ROAD,
HEPING COMMUNITY, FUHAI STREET, BAOAN DISTRICT,
SHENZHEN CITY, GUANGDONG PRIVINCE, P.R. CHINA

This report supersedes all previous documents bearing the test report number HKGEC1900675701 with amendment in page 10 by correcting sample description.

The following sample was submitted and identified on behalf of the client as: DRINKWARE

SGS Job No. : – HK
SGS Reference No. : CP19-045236-8.8
Item No. Given by Client : THERMO
Material No : PP, SILICA GEL, ABS, 304
Buyer : FLASHBAY JAPAN CO., LTD.
Buyer Address : 3F TSR BLDG, 20-9 NISHI-SHINBASHI 1-CHOME, MINATO-KU,
TOKYO, 105-0003, JAPAN
Manufacturer : FLASHBAY ELECTRONICS
Manufacturer Address : 1-4/F OF BLDG NO.3, BLDG NO. 2, 101-501F OF BLDG NO. 1,
XIFENGCHENG INDUSTRIAL PARK, NO.2, FUYUAN ROAD,
HEPING COMMUNITY, FUHAI STREET, BAOAN DISTRICT,
SHENZHEN CITY, GUANGDONG PRIVINCE, P.R. CHINA
Country of Origin : CHINA
Country of Destination : JAPAN
Date of Sample Received : 20 Aug 2019
2nd Date of Sample Received : 27 Sep 2019
Testing Period : 20 Aug 2019 – 09 Oct 2019

Test Requested : Selected test (s) as requested by client.

Test Method & Results : Please refer to next page(s).

Test Results Summary : Please refer to next page(s).

Signed for and on behalf of
SGS Hong Kong Limited



Lam Ka Yung, Allen
Chemist

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Result Summary

Test Requested	Conclusion
Japan Ministry of Health and Welfare Notice No. 370 and its amendments Part III Section D for the compliance of the provisions of paragraph 1 of Article 7 and Article 10 of Japan Food Sanitation Law (Law No. 233).	PASS
1) Plastics – Migration of coloring matter	PASS
2) Plastics – Total Lead and Cadmium content	PASS
3) Plastics – Heavy metals (as Lead)	PASS
4) Plastics – Consumption of Potassium Permanganate	PASS
5) Polypropylene – Evaporation residue of water, 4% acetic acid, 20% ethanol and n-heptane	PASS
6) Polystyrene – Evaporation residue of water, 4% acetic acid, 20% ethanol and n-heptane	PASS
7) Polystyrene – Volatile substances (Styrene, Toluene, Ethylbenzene, Isopropylbenzene and n-Propylbenzene)	PASS
8) Rubber – Migration of coloring matter	PASS
9) Rubber – Total Lead and Cadmium content	PASS
10) Rubber – Extractable Phenol	PASS
11) Rubber – Extractable Formaldehyde	PASS
12) Rubber – Extractable Zinc	PASS
13) Rubber – Heavy metals (as Lead)	PASS
14) Rubber – Evaporation residue of water, 4% acetic acid and 20% ethanol	PASS
15) Rubber – 2-Mercaptoimidazoline content	PASS

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Component List :

Style / Item No.	Part no.	Product Name	Test component list
THERMO	1	Plastic inner tank	Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
THERMO	2	Lid	Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)
THERMO	3	Slider plug	Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)
THERMO	4	Silicone seal	White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

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Test Results :

Japan Ministry of Health and Welfare Notice No. 370 and its amendments Part III Section D for the compliance of the provisions of paragraph 1 of Article 7 and Article 10 of Japan Food Sanitation Law (Law No. 233)

Method : With reference to Section III of Japan Ministry of Health and Welfare Notice No. 370 and its amendments.

1) Plastics – Migration of coloring matter

Simulant Used	Test Condition	Observation		
		1	2	3
Water	30 minutes at 60 °C	No color leach out	No color leach out	No color leach out
4% Acetic Acid	30 minutes at 60 °C	No color leach out	No color leach out	No color leach out
20% Ethanol	30 minutes at 60 °C	No color leach out	No color leach out	No color leach out
n-Heptane	60 minutes at 25 °C	No color leach out	No color leach out	No color leach out
Comment	--	PASS	PASS	PASS

Sample Description:

1. Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
2. Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)
3. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

Note : °C = degree Celsius

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Test Results : (Cont'd)

2) Plastics – Total Lead and Cadmium content

Test items	Result (µg/g)			Reporting Limit (µg/g)	Limit (µg/g)
	1	2	3		
Lead content	ND	ND	ND	5	100
Cadmium content	ND	ND	ND	5	100
Comment	PASS	PASS	PASS	--	--

Sample Description:

1. Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
2. Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)
3. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

Note : 1. µg/g = microgram per gram
2. ND = Not Detected

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Test Results : (Cont'd)

3) Plastics – Heavy metals (as Lead)

Test Condition : 4% acetic acid at 60°C for 30 minutes.

Test items	Result (µg/mL)			Reporting Limit (µg/mL)	Limit (µg/mL)
	1	2	3		
Heavy Metals (as Lead)	ND	ND	ND	1	1
Comment	PASS	PASS	PASS	--	--

Sample Description:

1. Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
2. Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)
3. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

Note: 1. °C = degree Celsius

2. µg/mL = microgram per millilitre

3. ND = Not Detected

4. >1 is shown when sample solution is darker than the standard solution with 1 µg/mL of Lead.

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Test Results : (Cont'd)

4) Plastics – Consumption of Potassium Permanganate

Test Condition : Water at 60°C for 30 minutes.

Test items	Result (µg/mL)			Reporting Limit (µg/mL)	Limit (µg/mL)
	1	2	3		
Consumption of Potassium Permanganate	ND	ND	ND	5	10
Comment	PASS	PASS	PASS	--	--

Sample Description:

1. Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
2. Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)
3. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

- Note:
1. °C = degree Celsius
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 3. ND = Not Detected

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Test Results : (Cont'd)

5) Polypropylene – Evaporation residue of water, 4% acetic acid, 20% ethanol and n-heptane

Simulant Used	Test Condition	Evaporation residue (µg/mL)		Reporting Limit (µg/mL)	Limit (µg/mL)
		1	2		
Water	30 minutes at 60 °C	ND	ND	10	30
4% Acetic Acid	30 minutes at 60 °C	18	ND	10	30
20% Ethanol	30 minutes at 60 °C	ND	ND	10	30
n-Heptane	60 minutes at 25 °C	ND	ND	10	150
Comment	--	PASS	PASS	--	--

Sample Description:

1. Black plastic (PP) (Plastic inner tank) (A) (Tested item) (HKG19-006757.001)
2. Black plastic (PP) (Lid) (B) (Tested item) (HKG19-006757.006)

- Note:
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Test Results : (Cont'd)

6) Polystyrene – Evaporation residue of water, 4% acetic acid, 20% ethanol and n-heptane

Simulant Used	Test Condition	Evaporation residue (µg/mL)	Reporting Limit (µg/mL)	Limit (µg/mL)
		1		
Water	30 minutes at 60 °C	ND	10	30
4% Acetic Acid	30 minutes at 60 °C	ND	10	30
20% Ethanol	30 minutes at 60 °C	ND	10	30
n-Heptane	60 minutes at 25 °C	ND	10	240
Comment	--	PASS	--	--

Sample Description:

1. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

- Note:
1. °C = degree Celsius
 2. µg/mL = microgram per millilitre
 3. ND = Not Detected

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Test Results : (Cont'd)

7) Polystyrene – Volatile substances (Styrene, Toluene, Ethylbenzene, Isopropylbenzene and n-Propylbenzene)

Volatile substances	Result (µg/g)	Reporting Limit (µg/g)	Limit (µg/g)
	1		
Styrene	ND	5	--
Toluene	ND	5	--
Ethylbenzene	ND	15	--
Isopropylbenzene	ND	5	--
n-propylbenzene	ND	5	--
Total	ND	--	5000
Comment	PASS	--	--

Sample Description:

1. Black plastic (ABS) (Slider plug) (C) (Tested item) (HKG19-006757.003)

Note : 1. µg/g = microgram per gram
2. ND = Not Detected

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Test Results : (Cont'd)

8) Rubber – Migration of coloring matter

Simulant Used	Test Condition	Observation
		1
Water	30 minutes at 60°C	No color leach out
4% Acetic Acid	30 minutes at 60°C	No color leach out
20% Ethanol	30 minutes at 60°C	No color leach out
Comment	--	PASS

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

Note : °C = degree Celsius

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Test Results : (Cont'd)

9) Rubber – Total Lead and Cadmium content

Test items	Result (µg/g)	Reporting Limit (µg/g)	Limit (µg/g)
	1		
Lead content	ND	5	100
Cadmium content	ND	5	100
Comment	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

Note : 1. µg/g = microgram per gram

2. ND = Not Detected

3. Modified method according to Japan Ministry of Health, Labour and Welfare Notice No. 595 has been adopted.

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Test Results : (Cont'd)

10) Rubber – Extractable Phenol

Test Condition : Water at 60°C for 30 minutes.

Test items	Result (µg/mL)	Reporting Limit (µg/mL)	Limit (µg/mL)
	1		
Extractable Phenol	ND	1	5
Comment	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

- Note:
1. °C = degree Celsius
 2. µg/mL = microgram per millilitre
 3. ND = Not Detected

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Test Results : (Cont'd)

11) Rubber – Extractable Formaldehyde

Test Condition : Water at 60°C for 30 minutes.

Test Item	Result	Requirement
	1	
Extractable Formaldehyde	Negative	Negative
Comment	PASS	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

Note: °C = degree Celsius

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Test Results : (Cont'd)

12) Rubber – Extractable Zinc

Test Condition : 4% acetic acid at 60°C for 30 minutes.

Test items	Result (µg/mL)	Reporting Limit (µg/mL)	Limit (µg/mL)
	1		
Extractable Zinc	ND	0.1	15
Comment	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

- Note:
1. °C = degree Celsius
 2. µg/mL = microgram per millilitre
 3. ND = Not Detected

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Test Results : (Cont'd)

13) Rubber – Heavy metals (as Lead)

Test Condition : 4% acetic acid at 60°C for 30 minutes.

Test items	Result (µg/mL)	Reporting Limit (µg/mL)	Limit (µg/mL)
	1		
Heavy Metals (as Lead)	ND	1	1
Comment	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

Note: 1. °C = degree Celsius

2. µg/mL = microgram per millilitre

3. ND = Not Detected

4. >1 is shown when sample solution is darker than the standard solution with 1 µg/mL of Lead.

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Test Results : (Cont'd)

14) Rubber – Evaporation residue of water, 4% acetic acid and 20% ethanol

Simulant Used	Test Condition	Evaporation residue (µg/mL)	Reporting Limit (µg/mL)	Limit (µg/mL)
		1		
Water	30 minutes at 60 °C	ND	10	60
4% Acetic Acid	30 minutes at 60 °C	ND	10	60
20% Ethanol	30 minutes at 60 °C	ND	10	60
Comment	--	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

- Note: 1. °C = degree Celsius
 2. µg/mL = microgram per millilitre
 3. ND = Not Detected

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Test Results : (Cont'd)

15) Rubber – 2-Mercaptoimidazoline content

Test items	Result (µg/g)	Reporting Limit (µg/g)	Requirement
	1		
2-Mercaptoimidazoline content	ND	20	Negative
Comment	PASS	--	--

Sample Description:

1. White soft plastic (Silicone) (Silicone seal) (D) (Tested item) (HKG19-006757.004)

Note : 1. µg/g = microgram per gram

2. ND = Not Detected

3. Modified method according to Japan Ministry of Health, Labour and Welfare Notice No. 595 has been adopted.

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Sample photo:



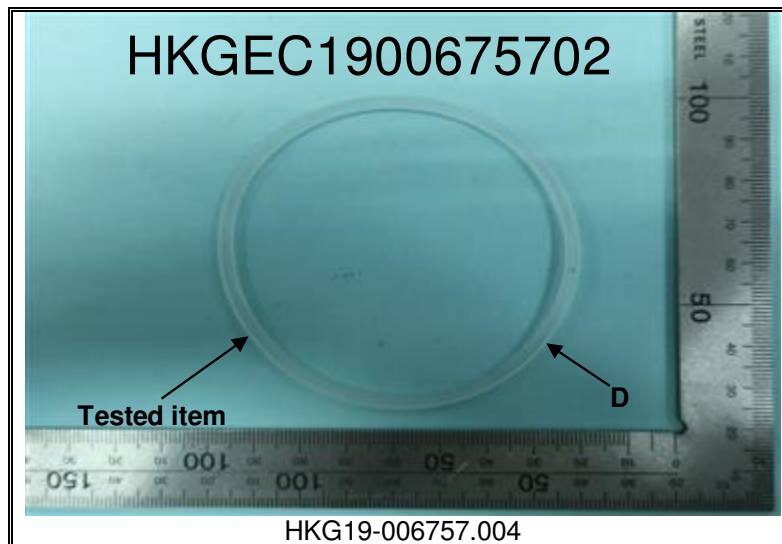
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