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国际互认
检测
TESTING
CNAS L6203

Test Report

Report No.: LST23040125ENS4

Date: Jun. 07, 2023

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Applicant: Mid Ocean Brands B.V.

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

The following sample(s) information and test item(s) were submitted and identified by/on behalf of the applicant

Sample Name: MO6972

Vendor code: 117444

Sample Receiving Date: Apr. 10, 2023

Testing Period: Apr. 10, 2023 to Jun. 07, 2023

*****FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for and on behalf of LST

Rory / Technical Manager



Zhejiang Lisen Testing Technology Co., Ltd.

Address: 5 Floor, Building 13, Yiwu Science & Technology Park,

No. 968 Xuefeng West Road, Yiwu, Zhejiang, China

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Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Tested materials of submitted samples	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 & (EU) No 2015/628 - Lead content	PASS
2	Tested materials of submitted samples	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & commission regulation(EU) No.494/2011 & amended (EU) No. 835/2012 & (EU) No 217/2016 - Cadmium content ⁿ	PASS
3	Tested materials of submitted samples	Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009&(EU) 2018/2005 - Phthalates	PASS
4	Tested materials of submitted samples	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
5	Tested materials of submitted samples	European Commission Regulation(EU)No 10/2011 with amendments (EU) 2020/1245 - Overall migration ⁿ - Specific Migration of Heavy Metal ^{s n} - Specific Migration of Bisphenol A ^s - Specific migration test of Primary Aromatic Amine for plastic ^s	PASS
6	Tested materials of submitted samples	Framework Resolution ResAP(2004) 5 on silicones used for food contact applications. - Overall migration ⁿ	PASS
7	Tested materials of submitted samples	COUNCIL DIRECTIVE 84/500/EEC on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs, and COMMISSION DIRECTIVE 2005/31/EC. - Migration of Lead and Cadmium.	PASS
8	Tested materials of submitted samples	French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - Peroxide residues ^{s n} - Specific migration of Organotin ^{s n}	PASS
9	Tested materials of submitted samples	French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - Volatile organic matter	PASS

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10	Tested materials of submitted samples	Regulation(EC) No 1935/2004 - Extractable Heavy metals (Pb, Cd, Hg) ^{s n} - Pentachlorophenol (PCP) content ^{s n} - Migration of Formaldehyde ^{s n}	PASS
11	Tested materials of submitted samples	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) ^{s n}	PASS
12	Tested materials of submitted samples	Tested materials of submitted samples refer to client's requirement on Bisphenol A (BPA) ^{s n} content	PASS

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Sample Description

Material No.	Component Description	Location
01	Black plastic silicone	Outside of cup
02	Transparent glass	Mug
03	Transparent plastic	Straw
04	Brown bamboo	Lid
05	Yellow plastic silicone	Lid
06	Black plastic	Handle
07	Black plastic	Lid
08	White silicone	Seal ring
09	Silvery metal	Bolt
10	Cup	Cup entirety

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Photo of sample



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Test Result(s):

Annex XVII items 63 of the REACH – Lead content

Method:

Metal - With reference to CPSC-CH-E1001-08.3,

Nonmetal - With reference to CPSC-CH-E1002-08.3,

analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
01	500	N.D.	PASS
02#	500	N.D.	PASS
(03+06+07) ▲#	500	N.D.	PASS
04#	500	N.D.	PASS
(05+08) ▲#	500	N.D.	PASS
09#	500	15	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "▲" this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.
 5. "#" = Sample receiving date is Apr. 21, 2023.

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Annex XVII items 23 of the REACH - Cadmium content ⁿ

Method:

Metal - With reference to CPSC-CH-E1001-08.3,

Nonmetal - With reference to CPSC-CH-E1002-08.3,

analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
01	100	N.D.	PASS
02#	100	N.D.	PASS
(03+06+07) ▲#	100	N.D.	PASS
04#	100	N.D.	PASS
(05+08) ▲#	100	N.D.	PASS
09#	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.
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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to ISO 8124-6:2018(E) Method C, Internal standard (IS) calibration, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	SUM	DNOP	DIDP	DINP	SUM	Conclusion	
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	--	117-84-0	26761-40-0 /68515-49-1	28553-12-0 /68515-48-0	--		PASS
Limit (%)	--	--	--	--	0.1	--	--	--	0.1		
RL(%)	0.005	0.005	0.005	0.005	--	0.005	0.01	0.01	--		
Material No.	Result (%)										
01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	
(03+06+07) ▲#	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	
(05+08) ▲#	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. 1% = 10000mg/kg
 3. N.D. = Not Detected (< RL).
 4. RL = Reporting Limit.
 5. The DBP, BBP, DEHP and DIBP shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles.
 6. The DNOP, DIDP and DINP shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
 7. "▲" this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.
 8. "#" = Sample receiving date is Apr. 21, 2023.

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Annex XVII items 50 of the REACH - Polycyclic Aromatic Hydrocarbons (PAHs)

Method: With reference to AfPS GS 2019:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)		
		I	II	III	01	(03+06+07) ▲#	(05+08) ▲#
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.	N.D.	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.	N.D.	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	N.D.	N.D.	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.	N.D.	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	1	0.5	N.D.	N.D.	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.	N.D.	N.D.
SUM		10	--	--	N.D.	N.D.	N.D.
Conclusion					PASS	PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.2 mg/kg.
 4. "--" = Not Regulated.
 5. Product Class:
 - I = Extender oils.
 - II = Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
 - III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
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Overall migration ⁿ

Method: With reference to EN 1186-1:2002 & EN 1186-3:2022 method 1a

Material No.	Test Condition		Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
03#	1 st test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	2 nd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	1 st test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	2 nd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
05#	1 st test	3% Acetic acid(w/v), 70°C, 2 hours	10	3.4	PASS
	2 nd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	1 st test	50% Ethanol(v/v), 70°C, 2 hours	10	3.8	PASS
	2 nd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
07#	1 st test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	2 nd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	1 st test	50% Ethanol(v/v), 70°C, 2 hours	10	3.6	PASS
	2 nd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
08#	1 st test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	2 nd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	1 st test	50% Ethanol(v/v), 70°C, 2 hours	10	3.3	PASS
	2 nd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
	3 rd test	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

- Note:**
1. mg/dm² = milligram per square decimetre of surface area of material or article.
 2. "#"= Sample receiving date is Apr. 21, 2023.
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Specific Migration of Heavy Metal ^{s n}

Test Method : With reference to EN 13130-1:2004,analysis was performed by ICP-OES and ICP-MS

Simulant used : 3% Acetic acid

Test condition: 70℃ for 2 hours

Test Item (Unit :mg/kg)	RL(mg/kg)	Limit (mg/kg)	Result (mg/kg)		
			03#		
			1 st test	2 nd test	3 rd test
1. Barium(Ba)	0.1	1	N.D.	N.D.	N.D.
2. Cobalt(Co)	0.05	0.05	N.D.	N.D.	N.D.
3. Copper(Cu)	1	5	N.D.	N.D.	N.D.
4. Iron(Fe)	1	48	N.D.	N.D.	N.D.
5. Lithium(Li)	0.1	0.6	N.D.	N.D.	N.D.
6. Manganese(Mn)	0.1	0.6	N.D.	N.D.	N.D.
7. Zinc(Zn)	1	5	N.D.	N.D.	N.D.
8. Aluminum(Al)	0.1	1	N.D.	N.D.	N.D.
9. Nickel(Ni)	0.01	0.02	N.D.	N.D.	N.D.
10. Antimony (Sb)	0.002	0.04	N.D.	N.D.	N.D.
11. Arsenic(As)	0.01	0.01	N.D.	N.D.	N.D.
12. Cadmium(Cd)	0.002	0.002	N.D.	N.D.	N.D.
13. Chromium(Cr)	0.01	0.01	N.D.	N.D.	N.D.
14. Lead(Pb)	0.01	0.01	N.D.	N.D.	N.D.
15. Mercury(Hg)	0.01	0.01	N.D.	N.D.	N.D.
16. Europium(Eu)	0.002	SUM: 0.05	N.D.	N.D.	N.D.
17. Gadolinium(Gd)	0.002		N.D.	N.D.	N.D.
18. Lanthanum(La)	0.002		N.D.	N.D.	N.D.
19. Terbium(Tb)	0.002		N.D.	N.D.	N.D.
Conclusion			PASS		

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Test Item (Unit :mg/kg)	RL(mg/kg)	Limit (mg/kg)	Result (mg/kg)		
			07#		
			1 st test	2 nd test	3 rd test
1. Barium(Ba)	0.1	1	N.D.	N.D.	N.D.
2. Cobalt(Co)	0.05	0.05	N.D.	N.D.	N.D.
3. Copper(Cu)	1	5	N.D.	N.D.	N.D.
4. Iron(Fe)	1	48	N.D.	N.D.	N.D.
5. Lithium(Li)	0.1	0.6	N.D.	N.D.	N.D.
6. Manganese(Mn)	0.1	0.6	N.D.	N.D.	N.D.
7. Zinc(Zn)	1	5	N.D.	N.D.	N.D.
8. Aluminum(Al)	0.1	1	N.D.	N.D.	N.D.
9. Nickel(Ni)	0.01	0.02	N.D.	N.D.	N.D.
10. Antimony (Sb)	0.002	0.04	N.D.	N.D.	N.D.
11. Arsenic(As)	0.01	0.01	N.D.	N.D.	N.D.
12. Cadmium(Cd)	0.002	0.002	N.D.	N.D.	N.D.
13. Chromium(Cr)	0.01	0.01	N.D.	N.D.	N.D.
14. Lead(Pb)	0.01	0.01	N.D.	N.D.	N.D.
15. Mercury(Hg)	0.01	0.01	N.D.	N.D.	N.D.
16. Europium(Eu)	0.002	SUM: 0.05	N.D.	N.D.	N.D.
17. Gadolinium(Gd)	0.002		N.D.	N.D.	N.D.
18. Lanthanum(La)	0.002		N.D.	N.D.	N.D.
19. Terbium(Tb)	0.002		N.D.	N.D.	N.D.
Conclusion			PASS		

- Note:**
1. mg/Kg = ppm=parts per million
 2. N.D. = Not Detected (< RL).
 3. RL= Reporting Limit.
 4. "# "= Sample receiving date is Apr. 21, 2023.
 5. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
 6. Items marked with "n" means they are not accredited by CNAS.

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Release of Lead and Cadmium

Method: With reference to ISO 7086-1:2019, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item	Lead(Pb)	Cadmium(Cd)	Conclusion
Limit (mg/L)	4.0	0.3	
Material No.	Result(mg/L)		PASS
02#	<0.1	<0.01	

- Note:**
1. Volume of 4% Acetic acid used 800 mL.
 2. mg/dm² = milligram per square decimetre of surface area of material or article.
 3. mg/L = milligram per liter.
 4. Permissible limits for articles

Category	Lead(Pb)	Cadmium(Cd)
1 Articles which cannot be filled and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25 mm.	0.8 mg/dm ²	0.07 mg/dm ²
2 All other articles which can be Filled.	4.0mg/L	0.3mg/L
3 Cooking ware; packaging and storage vessels having a capacity of more than three litres.	1.5mg/L	0.1mg/L

5. "#" = Sample receiving date is Apr. 21, 2023.

Volatile organic matter (VOM)

Method: With reference to French Arrêté du 25 November 1992, ANNEX III

Material No.	Limit(%)	Result(%)	Conclusion
05#	0.5	0.2	PASS
08△	0.5	0.36	PASS

- Note:**
1. % = Percentage by weight..
 2. "#" = Sample receiving date is Apr. 21, 2023.
 3. "△" = Sample receiving date is May. 04, 2023.

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Peroxide value ^{s n}

Method: With reference to European Pharmacopoeia (2005).

Material No.	Limit(mg/kg)	Result(mg/kg)	Conclusion
05#	Absent	Absent	PASS
08#	Absent	Absent	PASS

- Note:**
1. “#”= Sample receiving date is Apr. 21, 2023.
 2. Items marked “s” means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
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Specific Migration of Organotin (as Tin) ^{s n}

Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test methods; analysis was performed by ICP-OES.

Material No.	Test Condition		Limit (mg/kg)	Result (mg/kg)	Conclusion
05#	1 st test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS
	2 nd test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS
	3 rd test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS
08#	1 st test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS
	2 nd test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS
	3 rd test	70°C for 2 hours in 3%Acetic acid (w/V)	0.1	<0.01	PASS

- Note:**
1. mg/kg = milligrams per kilogram.
 2. The result express as Tin.
 3. Items marked “s” means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
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Extractable Heavy metals (Pb, Cd, Hg) ^{s n}

Method : With reference to EN 13130-1:2004, analysis was performed by ICP-MS

Condition: 70°C for 2 hours in 3%Acetic acid (w/V)

Elements	Pb	Cd	Hg	Conclusion
Limit (mg/dm ²)	0.003	0.002	0.002	
Material No.	Result (mg/dm ²)			PASS
04#	N.D.	N.D.	N.D.	

- Note:**
1. mg/dm² = milligrams per kilogram (ppm=parts per million)
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 0.001 mg/kg.
 4. "#"= Sample receiving date is Apr. 21, 2023.
 5. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
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Pentachlorophenol (PCP) content ^{s n}

Method: With reference to CEN/TR 14823:2003, analysis was performed by Gas Chromatograph Mass Spectrometer.

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
04#	0.15	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 0.1mg/kg.
 4. "#"= Sample receiving date is Apr. 21, 2023.
 5. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
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Migration of Formaldehyde ^{s n}

Method : Reference to BS EN 13130-1:2004 &BS DD CEN/TS 13130-23:2005

Condition: 70°C for 2 hours in 3%Acetic acid (w/V)

Material No.	Limit(mg/kg)	Result(mg/kg)	Conclusion
04#	15	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 1mg/kg.
 4. "#"- Sample receiving date is Apr. 21, 2023.
 5. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23042444128E)
 6. Items marked with "n" means they are not accredited by CNAS.

Specific Migration of Bisphenol A^s

Method:With reference to BS EN 13130-1:2004.

Material No.	Test Condition		Limit (mg/kg)	Result (mg/kg)	Conclusion
03	1 st test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS
	2 nd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS
	3 rd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS
07	1 st test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS
	2 nd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS
	3 rd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.01	PASS

Material No.	Test Condition		Client's Limit (mg/kg)	Result (mg/kg)	Conclusion
08	1 st test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.05	PASS
	2 nd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.05	PASS
	3 rd test	70°C for 2 hrs in 3%Acetic acid (w/V)	0.05	<0.05	PASS

- Note:**
1. mg/kg = milligrams per kilogram.
 2. The result express as Tin.
 3. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (CNAS No.L7462, subcontractor report No. SFT23052045020E).

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Specific Migration of Primary Aromatic Amine ^s

Test Method: To refer to EN 13130-1:2004, the analysis was performed by GC-MS.

Test Condition: Sample preparation in 3% acetic acid at 70°C, 2h (three times).

Test Item (Unit :mg/kg)	Limit (mg/kg)	MDL (mg/kg)	Result (mg/kg)		
			03		
			1 st test	2 nd test	3 rd test
4-Aminobiphenyl	Non-detectable	0.002	N.D.	N.D.	N.D.
Benzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
4-Chloro-o-toluidine	Non-detectable	0.002	N.D.	N.D.	N.D.
2-Naphthylamine	Non-detectable	0.002	N.D.	N.D.	N.D.
O-Aminoazotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
2-amino-4-nitrotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
p-chloroaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-diaminoanisole	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4'-diaminodiphenylmethane	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dichlorobenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethoxybenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethylbenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethyl-4,4'-diaminodiphenylmethane	Non-detectable	0.002	N.D.	N.D.	N.D.
p-cresidine	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -methylene-bis-(2-chloroaniline)	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -oxydianiline	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -thiodianiline	Non-detectable	0.002	N.D.	N.D.	N.D.
o-toluidine	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-diaminotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4,5-trimethylaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
2-methoxyaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
4-aminoazobenzene	Non-detectable	0.002	N.D.	N.D.	N.D.
1,3-phenylenediamine	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-xylydine	SUM: <0.01	0.002	N.D.	N.D.	N.D.
2,6-xylydine		0.002	N.D.	N.D.	N.D.
p-Phenylenediamine		0.002	N.D.	N.D.	N.D.
Aniline		0.002	N.D.	N.D.	N.D.
Conclusion			PASS		

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Test Item (Unit :mg/kg)	Limit (mg/kg)	RL (mg/kg)	Result (mg/kg)		
			07		
			1 st test	2 nd test	3 rd test
4-Aminobiphenyl	Non-detectable	0.002	N.D.	N.D.	N.D.
Benzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
4-Chloro-o-toluidine	Non-detectable	0.002	N.D.	N.D.	N.D.
2-Naphthylamine	Non-detectable	0.002	N.D.	N.D.	N.D.
O-Aminoazotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
2-amino-4-nitrotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
p-chloroaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-diaminoanisole	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4'-diaminodiphenylmethane	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dichlorobenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethoxybenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethylbenzidine	Non-detectable	0.002	N.D.	N.D.	N.D.
3,3'-dimethyl-4,4'-diaminodiphenylmethane	Non-detectable	0.002	N.D.	N.D.	N.D.
p-cresidine	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -methylene-bis-(2-chloroaniline)	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -oxydianiline	Non-detectable	0.002	N.D.	N.D.	N.D.
4,4' -thiodianiline	Non-detectable	0.002	N.D.	N.D.	N.D.
o-toluidine	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-diaminotoluene	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4,5-trimethylaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
2-methoxyaniline	Non-detectable	0.002	N.D.	N.D.	N.D.
4-aminoazobenzene	Non-detectable	0.002	N.D.	N.D.	N.D.
1,3-phenylenediamine	Non-detectable	0.002	N.D.	N.D.	N.D.
2,4-xylidine	SUM: <0.01	0.002	N.D.	N.D.	N.D.
2,6-xylidine		0.002	N.D.	N.D.	N.D.
p-Phenylenediamine		0.002	N.D.	N.D.	N.D.
Aniline		0.002	N.D.	N.D.	N.D.
Conclusion			PASS		

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- Note:**
1. mg/Kg = ppm=parts per million
 2. N.D. = Not Detected (< RL(Reporting Limit)).
 3. Items marked “s” means the item of subcontractor. The subcontractor is EMTEK(DONGGUAN) Co., Ltd. (CNAS No.L7462, subcontractor report No. EDG2305220229C00101R)

Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)

Method: With reference to BS EN 12875-1:2005 ^{s n}

Material No.: 10#

Picture 1: Sample as received		Remarks	
 <p>(Left: Control; Right: Tested)</p> <p>Note: Picture is for reference only. Actual colours of the picture may vary due to lighting and output process.</p>	1.1 After 10cycles	Color1)	0
		Gloss	0
		Clouding	0
		Resistant deposits and iridescent layers 2)	0
		Other aspects	0

- Remark:**
1. 1) = If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.
2) = For the elimination of easily removable deposits.
 2. Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.Evaluation of inspection criteria quoted from BS EN 12875-1:2005
 2. “#”= Sample receiving date is Apr. 21, 2023.
 3. Items marked with “n” means they are not accredited by CNAS.

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated “dishwasher resistant”, “dishwasher proof”, “dishwasher safe” or any other similar description that suggests that the articles can be safety cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change(Classification 1) but shall not show clearly visible change (Classification 2).

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Bisphenol A (BPA)^{s n}

Method: In house method.

Material No.	Client's Limit (mg/kg)	Result (mg/kg)	Conclusion
07	N.D.	N.D.	PASS
08	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL(Reporting Limit) =0.1mg/kg.
 4. Items marked "s" means the item of subcontractor. The subcontractor is Guangdong Safety Testing Co., Ltd. (subcontractor report No. SFT23060345493E)
 5. Items marked with "n" means they are not accredited by CNAS.

Remark:

This report is a revised document for Report No. LST23040125ENS3. Report No. LST23040125ENS3 is replaced and invalidated automatically from the approval date of this report.

End of Report

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