

# **Test Report**

Report No. : AGC05443220912-001

**SAMPLE NAME**: Set of bottle lunch box cutlery with neoprene bag

**MODEL NAME**: MO6765

**APPLICANT**: MID OCEAN BRANDS B.V

**STANDARD(S)**: Please refer to the following page(s).

**DATE OF** 

: Sep.20, 2022

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





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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.

Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

#### Report on the submitted sample(s) said to be:

Sample Name : Set of bottle lunch box cutlery with neoprene bag

Model : MO6765

Country of origin : CHINA

Country of destination : EUROPE

Vendor code : 114276

Sample Received Date : Sep.08, 2022

Testing Period : Sep.08, 2022 to Sep.20, 2022

Approved by:

Approved by: Jossie Lian

Qinlianzhi, Reed

Liangdan, Jessie.Liang

Laboratory Supervisor

**Technical Director** 



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# Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Sep.20, 2022	Valid	Initial release



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Test	t Requested:	Conclusion
1.	As specified by client, to determine the Aromatic Amines Azodyes(AZO) content in the submitted sample(s) with reference to entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2.	As specified by client, to determine the Polycyclic-aromatic hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.	/
3.	As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
4.	As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
5.	As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
6.	As specified by client, to test sample with reference to food for compliance with Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. for metal:  - Extractable heavy metal	Pass
7.	As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone:	
	- Overall Migration (3% Acetic acid, 50% ethanol)	Pass
	- Specific migration of Bisphenol A(BPA)	Pass
8.	- Bisphenol A(BPA) content As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442.	Pass
	-Peroxide value	Pass
	-Volatile Organic Matter	Pass
	-Specific Migration of Organotin (measured as Tin)	Pass
9.	As specified by client, to determined for mechanical dishwashing safe test.	/
10.	As specified by client, to determine Colour fastness to rubbing in the submitted sample(s).	Pass



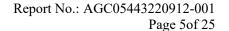
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# **Test Result:**

#### 1. Test Result of Aromatic Amines Azodyes(AZO) Content

Test Item	CAS No.	Test Method/ Instrument	MDL	Limit
4-Aminobiphenyl	92-67-1		5mg/kg	≤30mg/kg
Benzidine	92-87-5		5mg/kg	≤30mg/kg
4-Chloro-o-Toluidine	95-69-2		5mg/kg	≤30mg/kg
2-Naphthylamine	91-59-8		5mg/kg	≤30mg/kg
4-amino-2',3-dimethylazobenzene	97-56-3		5mg/kg	≤30mg/kg
5-Nitro-o-toluidine	99-55-8		5mg/kg	≤30mg/kg
4-Chloroaniline	106-47-8		5mg/kg	≤30mg/kg
4-Methoxy-m-phenylenediamine	615-05-4		5mg/kg	≤30mg/kg
4,4'-Diaminodiphenylmethane	101-77-9		5mg/kg	≤30mg/kg
3,3'-Dichlorobenzidine	91-94-1	EN ISO 14362-1:2017 / GC-MS	5mg/kg	≤30mg/kg
3,3'-Dimethoxybenzidine	119-90-4		5mg/kg	≤30mg/kg
3,3'-Dimethybenzidine	119-93-7		5mg/kg	≤30mg/kg
4,4'-Methylenedi-o-toluidine	838-88-0		5mg/kg	≤30mg/kg
6-methoxy-m-toluidine	120-71-8		5mg/kg	≤30mg/kg
4,4'-methylenebis[2-chloroaniline]	101-14-4		5mg/kg	≤30mg/kg
4,4'-Oxydianiline	101-80-4		5mg/kg	≤30mg/kg
4,4'-Thiodianiline	139-65-1		5mg/kg	≤30mg/kg
2-Aminotoluene	95-53-4		5mg/kg	≤30mg/kg
4-methyl-m-phenylenediamine	95-80-7		5mg/kg	≤30mg/kg
2,4,5-Trimethylaniline	137-17-7		5mg/kg	≤30mg/kg
2-Methoxyaniline	90-04-0		5mg/kg	≤30mg/kg
4-Aminoazobenzene <sup>a</sup>	60-09-3		5mg/kg	≤30mg/kg

Note: <sup>a</sup> The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to aniline and/or 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017.





T (1)		Result(s) (mg/kg)	
Test Item(s)	1-11	1-12	1-15
4-Aminobiphenyl	N.D.	N.D.	N.D.
Benzidine	N.D.	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.	N.D.
3,3'-Dimethybenzidine	N.D.	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.	N.D.
Conclusion	Conformity	Conformity	Conformity



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# 2.Test Result of Polycyclic-aromatic hydrocarbons (PAHs)Content

Test Item	Test Method/ Instrument	MDL	Limit
Benzo[a]pyrene (BaP) (CAS No.: 50-32-8)		0.1mg/kg	
Benzo[e]pyrene(BeP) (CAS No.: 192-97-2)		0.1mg/kg	
Benzo[a]anthracene (BaA) (CAS No.: 56-55-3)		0.1mg/kg	
Benzo[b]fluoranthene (BbF) (CAS No.: 205-99-2)	AfPS GS 2019:01 PAK/ GC-MS	0.1mg/kg	Rubber or plastic
Benzo[j]fluoranthene(BjFA) (CAS No.: 205-82-3)		0.1mg/kg	components: Single≤1mg/kg
Benzo[k]fluoranthene (BkF) (CAS No.: 207-08-9)		0.1mg/kg	
Chrysene (CHR) (CAS No.: 218-01-9)		0.1mg/kg	
Dibenzo[a,h]anthracene (DBA) (CAS No.: 53-70-3)		0.1mg/kg	

Tost Itom(c)	Result(s) (mg/kg)					
Test Item(s)	1-3	1-6	1-10	1-14		
Benzo[a]pyrene (BaP)	N.D.	N.D.	N.D.	N.D.		
Benzo[e]pyrene(BeP)	N.D.	N.D.	N.D.	N.D.		
Benzo[a]anthracene (BaA)	N.D.	N.D.	N.D.	N.D.		
Benzo[b]fluoranthene (BbF)	N.D.	N.D.	N.D.	N.D.		
Benzo[j]fluoranthene(BjFA)	N.D.	N.D.	N.D.	N.D.		
Benzo[k]fluoranthene (BkF)	N.D.	N.D.	N.D.	N.D.		
Chrysene (CHR)	N.D.	N.D.	N.D.	N.D.		
Dibenzo[a,h]anthracene (DBA)	N.D.	N.D.	N.D.	N.D.		
Sum of PAHs	N.D.	N.D.	N.D.	N.D.		
Conclusion	Conformity	Conformity	Conformity	Conformity		



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#### 3. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit	
Diisobutyl phthalate(DIBP)		0.010%		
(CAS No.: 84-69-5)		0.01070		
Dibutyl phthalate (DBP)		0.010%		
(CAS No.: 84-74-2)		0.01076	Single<0.1%	
Butylbenzyl phthalate (BBP)		0.010%	Sum<0.1%	
(CAS No.: 85-68-7)	EN 14372:2004/ GC-MS	0.01070		
Di-(2-ethylhexyl) Phthalate (DEHP)		0.010%		
(CAS No.: 117-81-7)		0.01070		
Di-n-octyl phthalate (DNOP)		0.010%		
(CAS No.: 117-84-0)		0.01070		
Di-isononyl phthalate (DINP)		0.010%	G +0.10/	
(CAS No.: 28553-12-0;68515-48-0)		0.01070	Sum<0.1%	
Di-isodecyl phthalate(DIDP)		0.0100/		
(CAS No.: 26761-40-0; 68515-49-1)		0.010%		

Test		Test result (%)								
point	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP +BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+ DINP+DIDP)	Conclusion
1-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

# 4. Test Result of Cadmium(Cd)Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)		
Limit(mg/kg)	<100		
MDL(mg/kg)	10		
Test Method/Instrument	IEC 62321-5:2013/ ICP-OES		

Tost naint	Test result (mg/kg)	Conclusion
Test point	Cadmium(Cd)	Conclusion
1-3	N.D.	Conformity
1-6	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity
1-12	N.D.	Conformity
1-13	N.D.	Conformity

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Tost point	Test result (mg/kg)	Conclusion
Test point	Cadmium(Cd)	Conclusion
1-14	N.D.	Conformity
1-15	N.D.	Conformity

#### 5. Test Result of Lead(Pb)Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Complexion	Test result (mg/kg)	Tank maint
Conclusion	Lead(Pb)	Test point
Conformity	N.D.	1-1
Conformity	N.D.	1-2
Conformity	N.D.	1-3
Conformity	N.D.	1-4
Conformity	N.D.	1-5
Conformity	N.D.	1-6
Conformity	N.D.	1-7
Conformity	N.D.	1-8
Conformity	N.D.	1-9
Conformity	N.D.	1-10
Conformity	N.D.	1-11
Conformity	N.D.	1-12
Conformity	33	1-13
Conformity	N.D.	1-14
Conformity	N.D.	1-15

#### **Note:**

mg/kg =milligram per kilogram MDL = Method Detection Limit N.D.=Not Detected(less than method detection limit)

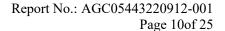


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# 6. Test result of Extractable heavy metal

Unit: mg/kg

			Test Result(s)	Omt. mg/kg
Test Item(s)	Test condition/ Equipment	MDL	1st + 2nd extractives	Limit
	Equipment		1-1	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	Artificial tap water	0.005	N.D.	0.07
Nickel (Ni)	/ 70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/





			Test Result(s)	Unit: mg/kg
Test Item(s)	Test condition/	MDL	3 <sup>rd</sup> extractives	Limit
rest rem(s)	Equipment	WIDE	1-1	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	Artificial tap water /	0.005	N.D.	0.01
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Conformity	/



Conclusion

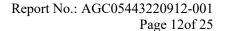
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Unit: mg/kg

		MDL	Test Result(s)	
Test Item(s)	Test condition/ Equipment		1st + 2nd extractives	Limit
	Ецириси		1-5	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% Citric acid / 70°C, 2h	0.005	N.D.	0.07
Nickel (Ni)	ICP-OES	0.01	0.017	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
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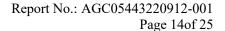
Unit: mg/kg				
	Test condition/		Test Result(s)	
Test Item(s)	Equipment	MDL	3 <sup>rd</sup> extractives	Limit
	1 1		1-5	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.01
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion	]	/	Conformity	/



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Unit: mg/kg

			Test Result(s)	
Test Item(s)	Test condition/ Equipment	MDL	1st + 2nd extractives	Limit
	Equipment		1-16	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	0.207	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	0.136	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/





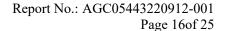
			Test Result(s)	Unit: mg/kg
Test Item(s)	Test condition/	MDL	3 <sup>rd</sup> extractives	_ Limit
	Equipment		1-16	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.01
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	-	0.01	N.D.	0.01
Conclusion		/	Conformity	/



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Unit: mg/kg

			Test Result(s)	Olit. Ilig/kg
Test Item(s)	Test condition/ Equipment	MDL	1st + 2nd extractives	Limit
	Equipment		1-17	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	0.205	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/





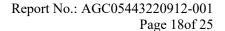
			Test Result(s)	Unit: mg/kg
Test Item(s)	Test condition/	MDL	3 <sup>rd</sup> extractives	_ Limit
rest riem(s)	Equipment	MIDL	1-17	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)	-	0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.01
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Conformity	/



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Unit: mg/kg

			Test Result(s)	
Test Item(s)	Test condition/ Equipment	MDL	1st + 2nd extractives	Limit
	Equipment		1-18	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	0.372	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/





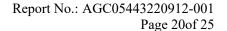
Unit: mg/kg				
	Test condition/		Test Result(s)	
Test Item(s)	Equipment	MDL	3 <sup>rd</sup> extractives	Limit
	Equipment		1-18	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% Citric acid / 70°C, 2h	0.005	N.D.	0.01
Nickel (Ni)	ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Conformity	/



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Unit: mg/kg

			Test Result(s)	
Test Item(s)	Test condition/ Equipment	MDL	1st + 2nd extractives	Limit
			1-19	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% Citric acid /	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/





Unit: mg/kg					
	Test condition/		Test Result(s)		
Test Item(s)	Equipment	MDL	3 <sup>rd</sup> extractives	Limit	
	1.1.		1-19		
Barium (Ba)		0.1	N.D.	1.2	
Copper (Cu)		0.1	N.D.	4	
Iron (Fe)		0.1	N.D.	40	
Tin (Sn)		0.1	N.D.	100	
Chromium (Cr)		0.01	N.D.	0.25	
Manganese (Mn)		0.1	N.D.	1.8	
Zinc (Zn)		0.1	N.D.	5	
Aluminum (Al)		0.1	N.D.	5	
Lithium (Li)		0.01	N.D.	0.048	
Beryllium (Be)		0.005	N.D.	0.01	
Vanadium (V)	0.5% Citric acid / 70°C, 2h ICP-OES	0.005	N.D.	0.01	
Nickel (Ni)		0.01	N.D.	0.14	
Cobalt (Co)		0.01	N.D.	0.02	
Arsenic (As)		0.002	N.D.	0.002	
Molybdenum (Mo)		0.01	N.D.	0.12	
Silver (Ag)		0.01	N.D.	0.08	
Cadmium (Cd)		0.002	N.D.	0.005	
Antimony (Sb)		0.01	N.D.	0.04	
Mercury (Hg)		0.002	N.D.	0.003	
Thallium (Tl)		0.0001	N.D.	0.0001	
Lead (Pb)		0.01	N.D.	0.01	
Conclusion		/	Conformity	/	

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



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# 7.1 Test Result(s) of Overall Migration

Unit: mg/dm<sup>2</sup>

Took Colution	Tost condition	MDL	Test R	esult(s)	T ::4
Test Solution	on Test condition MDL 1-3		1-6	Limit	
3% Acetic acid	7000 21	5	N.D.	N.D.	10
50% Ethanol	70°C, 2h	5	N.D.	N.D.	10
Conclusion	/	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

#### 7.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

	T4 1:4:/		Test R	esult(s)	Limit
Test Item(s)	Test condition/ Equipment	MDL	1-3	1-6	(Client's Requirement
Specific migration of Bisphenol A(BPA)	3% Acetic acid 70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	0.05
Conclusion	/	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

#### 7.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

			Resu	ult(s)	Limit
Test Item(s)	Test Method/ Equipment	MDL	1-3	1-6	(Client's Requirement
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	N.D.	Absent
Conclusion	/	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



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# 8.1 Test Result(s) of Peroxide value

Unit: %

Test Item	MDL	Resu	Limit	
1 est Item	MIDL	1-3	1-6	Limit
Peroxide value	0.2	Absent	Absent	Absent
Conclusion	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

#### 8.2 Test result of Volatile Organic Matter

Unit: %

Toot itom(s)	Toot Condition	MDI	Resi	ılt(s)	Limit
Test item(s)	1 est Condition	Test Condition MDL		1-6	Limit
Volatile Organic Matter	200°C, 4h	0.1	0.38	0.12	0.5
Conclusion	200 C, III	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)

-0.1%, w/w = 1000 mg/kg

#### 8.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

T (I)	Test condition/	MDI	Test Result(s)		T • •/
Test Item(s)	Equipment	MDL	1-3	1-6	Limit
Specific Migration of Organotin (measured as Tin)	3% Acetic acid 70°C, 2h / ICP-OES	0.01	N.D.	N.D.	0.1
Conclusion	/	/	Conformity	Conformity	/

**Note:** -MDL=method detection limit

-N.D.=not detected (less than method detection limit)



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# 9. Test Result of mechanical dishwashing safe test:

Sample: Set of bottle lunch box cutlery with neoprene bag

Test method: BS EN 12875-1:2005

Washing temperature:  $60^{\circ}$ C Number of cycle: Ten (10) cycles Number of tested sample: 1(one) pc(s).

Number of control sample: 1(one) pc(s).

For all tested plastic or metal articles:

1) No visible change of color, gloss and clouding was found on the tested samples after wash.

2) No visible deposit or iridescent layer was found on the tested samples after wash.

No visible swelling, deformation, cracking, crazing or delaminate on was found on the tested samples

after wash.

# 10. Test Results of Colour fastness to rubbing

**Test Method:** ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 20°C, 65 %R.H., 4hrs

The long direction of the specimen: Warp/Weft

The percentage of soak of wet rubbing cloth: 95%~100%

	Test I		
Test point	Colour fastness to	Conclusion	
	Dry rubbing	Wet rubbing	
1-11	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

#### Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

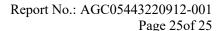
9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.



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### **Test Point Description**

Test Point D Test point	Test point description
1	Set of bottle lunch box cutlery with neoprene bag
1-1	Bottle inner in silver 304 stainless steel
1-2	Bottle outer in silver 201 stainless steel
1-3	Bottle lid inner with transparent white silicone ring
1-4	Bottle lid handle in silver 201 stainless steel
1-5	Lunch box in silver 304 stainless steel
1-6	Lunch box lid inner with grey silicone ring
1-7	Lunch box with two silver 304 stainless steel closing lock
1-8	Silver 430 stainless steel for fork, knife, spoon
1-9	Silver 304 stainless steel straw+Silver 304 stainless steel for brush handle
1-10	White color brush hair in nylon
1-11	Black neoprene pouch
1-12	Hanging loop
1-13	Metal zipper
1-14	Zipper plastic
1-15	Zipper fabric
1-16	Silver 430 stainless steel for fork
1-17	Silver 430 stainless steel for knife
1-18	Silver 430 stainless steel for spoon
1-19	Silver 304 stainless steel straw





# **Test Flow Chart**

#### 1. For AZO, Phthalates, PAHS Cutting/Preparation Weigh Sample Sample solvent extraction Concentration/ Dilution of Extracted solution Filtration GC-MS DATA 2. For Cd, Pb Acid digestion with Weigh Sample Sample Preparation microwave/hotplate Filtration **DATA ICP-OES**

# The photo of the sample



AGC05443220912-001

AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*



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