

TEST REPORT

APPLICANT : Mid Ocean Brands B.V.

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

SAMPLE DESCRIPTION : Set of 2 recycled SS bottle 500ml and PP lunchbox;
Double wall recycled SS bottle rubber finish with silicone handle

MODEL NO. : MO2314;MO2315

MATERIAL NO. : Stainless steel

BUYER : Mid Ocean Brands B.V.

SUPPLIER CODE : 118449

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : EU

PRODUCT MATERIAL : PP Silicone Stanless steel

SAMPLE RECEIVED DATE : 24-May-2024

FURTHER INFORMATION DATE : 14-Jun-2024

TURN AROUND TIME : 24-May-2024 to 19-Jun-2024

REVISED DTAE : 14-Nov-2024



The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Colour Fastness to Rubbing	ISO 105-X12:2016	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Total Bisphenol A (BPA) Content	French Décret 2007-766 and its amendments, and French Law No. 2012/1442	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Pentachlorophenol (PCP) Content	LFGB, Section 30 and 31, BfR recommendation	Pass
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Phthalates Content	REACH Annex XVII, Entry 51 & 52	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Overall Migration -PP	Regulation (EU) No. 10/2011 and its amendments, Fiche MCDA n° 3 (V03-09/09/2021)	Pass
Overall Migration	Resolution AP (2004) 5	Pass
Overall Migration -Silicone	French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992	Pass
Volatile Organic Matter (VOM)	French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992	Pass
Specific Migration of Bisphenol A	Regulation (EU) No. 10/2011 and its amendments, Fiche MCDA n° 3 (V03-09/09/2021)	Pass
Specific Release of Heavy Metals	EU Resolution CM/Res (2013)9	Pass
Peroxide Value	French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Hangzhou) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will consider the measurement uncertainty as calculated by our laboratory and apply according to ILAC G8:09/2019-(binary acceptance base on guard band). If you happen to have any comments, please do it by sending email to info.hz@cpt.eurofinscn.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Hangzhou) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint.hz@cpt.eurofinscn.com and referring to this report number.

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Specific migration of Organotin (as tin)	French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992	Pass
Specific Migration of Primary Aromatic Amines	Regulation (EU) No. 10/2011 and its amendments, Fiche MCDA n° 3 (V03-09/09/2021)	Pass
Specific Migration of Heavy Metal	Regulation (EU) No. 10/2011 and its amendments, Fiche MCDA n° 3 (V03-09/09/2021)	Pass
Extractable Formaldehyde	DGCCRF French Decree No. 2007-766 and its amendment	Pass
Mechanical dishwashing resistance of utensils-Part 1: Reference test method for domestic articles	BS EN 12875-1: 2005	See Test Result
Mechanical dishwashing resistance of utensils-Part 2: Inspection of non-metallic articles	Refer to BS EN 12875-2:2001	See Test Result
Materials and articles in contact with food stuffs- Test method for the: resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware	BS EN 15284:2007	Pass

Remark:

This report cancels and supersedes report number EFHZ24053652-CG-01+Rev2 issued on Oct 31, 2024. Modification description: 1.Per client's request, resubmit Component No.5,6 on Oct 18,2024 for releated tests and the test report is revised accordingly.
2.Per client's request, resubmit Component No.5 on Nov 06,2024 for releated tests and the test report is revised accordingly.

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Hangzhou) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will consider the measurement uncertainty as calculated by our laboratory and apply according to ILAC G8:09/2019-(binary acceptance base on guard band). If you happen to have any comments, please do it by sending email to info.hz@cpt.eurofinscn.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Hangzhou) Co., Ltd. If you happen to have any complaints, please do it by sending email to china.complaint.hz@cpt.eurofinscn.com and referring to this report number.

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

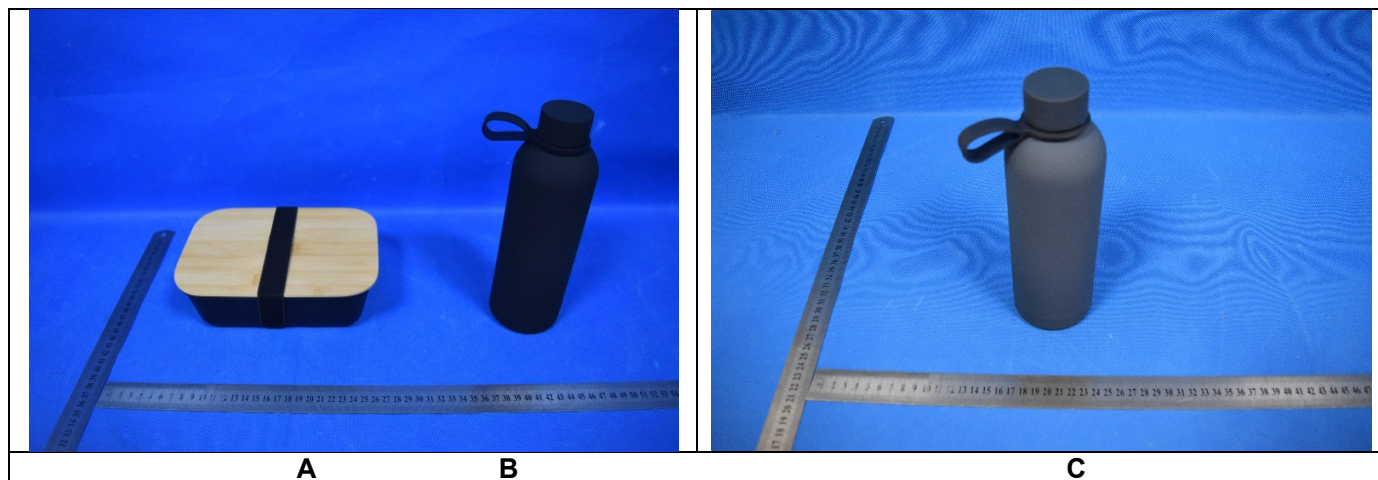
Signed for and on behalf of
Eurofins Product Testing Service (Hangzhou) Co., Ltd

Sara Liu

Sara Liu
Quality Manager



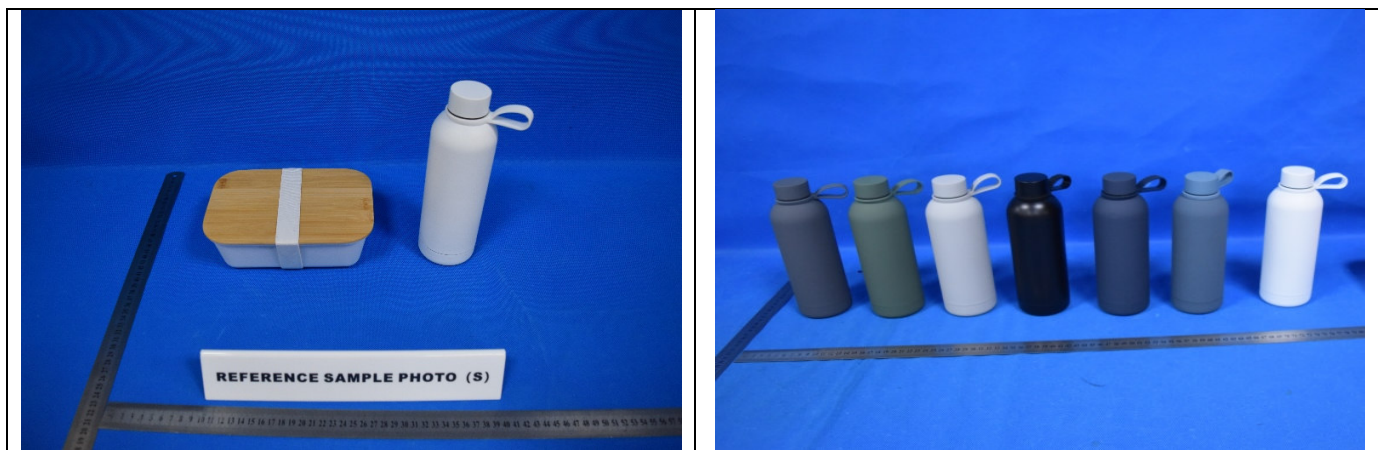
SAMPLE PHOTO(S)



EFHZ24053652-CG-01+Rev3

TO BE CONTINUED

REFERENCE SAMPLE PHOTO(S)



The reference samples have not been tested in current report, but according to customer's request, the pictures have also been included. For sample tested in current report, please refer to "sample photos".

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Silver stainless steel 304 (inner)	B,C
2	Silver stainless steel (outer)	B,C
3	Semi-transparent silicone ring	B,C
4	Semi-transparent silicone ring on lunchbox	A
5	Black PP lid	B,C
6	Black PP lunch box	A
7	Black elastic band	A
8	Natural color bamboo lid	A
9	Black coating on metal	B
10	Navy coating on metal	C
11	Black silicone handle	B
12	Navy silicone handle	C

TO BE CONTINUED

TEST RESULT

Colour Fastness to Rubbing

ISO 105-X12:2016.

	(7)	Requirement:
Lengthwise-Dry	3-4	Grade 2-3
Lengthwise-Wet	4-5	Grade 2-3
Widthwise-Dry	/	Grade 2-3
Widthwise-Wet	/	Grade 2-3

Remark:

Grey Scale for Assessing Colour Change/Staining

Grade 5 Negligible or no change/staining

Grade 4 Slightly changed/stained

Grade 3 Noticeably changed/stained

Grade 2 Considerably changed/stained

Grade 1 Much changed/stained

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN ISO 14362-1:2017, analysis was performed by GC-MS and confirmed with HPLC-DAD

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					7
4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	30	5	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND
Benzidine	92-87-5	mg/kg	30	5	ND
o-Toluidine	95-53-4	mg/kg	30	5	ND
5-Nitro-o-toluidine (Note 1)	99-55-8	mg/kg	30	5	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	30	5	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	30	5	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	30	5	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND
4-Amino-azobenzene (Note 2)	60-09-3	mg/kg	30	5	ND

Remarks:

Note 1: The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.

Note 2: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Bisphenol A (BPA) Content

Test Request: In accordance with French Décret 2007-766 and its amendments, and French Law No. 2012/1442.

Test Method: With reference to EPA 3550C:2007, EPA 8321B:2007, solvent extraction and determination by LC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					3	4	5	6
Bisphenol A	80-05-7	mg/kg	ND	0.10	ND	ND	ND	ND

Remarks:

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result				
				1+2	3+4+5	5	6	7
Total Lead	mg/kg	500	10	ND	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				9	10	11+12
Total Lead	mg/kg	500	10	ND	ND	ND

Remark:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Pentachlorophenol (PCP) Content

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31.

Test Method: With reference to EPA3550C:2007, EPA8270E:2018, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					8
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	0.05	ND

Remarks:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				3+4+5	5	6	7
Total Cadmium	mg/kg	100	5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				9	10
Total Cadmium	mg/kg	1000	5	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				11+12	
Total Cadmium	mg/kg	100	5	5	

Remark:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result				
					3+4+5	5	6	7	9
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND	ND	0.008
Sum of (DEHP+DBP+BBP+DiBP)	-	%	0.1	-	ND	ND	ND	ND	0.008
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND	ND
Diisononyl phthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					10	11+12
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND
Sum of (DEHP+DBP+BBP+DiBP)	-	%	0.1	-	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Diisononyl phthalate (DINP)	28553-12-0	%	-	0.005	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND

Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

“- “ = Not Regulated

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					3+4+5	5	6	7
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					9	10	11+12
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND	ND
Benzo-(j)-fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND	ND

Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Overall Migration -PP

Test Request: In accordance with Commission Regulation (EU) No. 10/2011 and its amendments, and DGCCRF Food contact suitability of organic materials from synthetic materials - Fiche MCDA n° 3 (V03-09/09/2021).

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-3:2022 overall migration in evaporable simulants by total immersion method

Simulant Used	Time	Temperature	Unit	Limit	Result		
					5		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	70° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	70° C	mg/dm ²	10	ND	ND	ND

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-2:2022 overall migration in olive oil by total immersion method
EN1186-3:2022 overall migration in evaporable simulants by filling a container method;

Simulant Used	Time	Temperature	Unit	Limit	Result		
					6		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	100° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	100° C	mg/dm ²	10	5.2	ND	ND
Oil	2hours	100° C	mg/dm ²	10	ND	ND	ND

Remark:

ND = not detected, less than 3.0 mg/dm²

mg/dm² = milligram per square decimeter

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Request: In accordance with Council of Europe Resolution AP (2004) 5.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-2:2022 overall migration in olive oil by total immersion method
EN1186-3:2022 overall migration in evaporable simulants by total immersion method

Simulant Used	Time	Temperature	Unit	Limit	Result		
					3		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	70° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	70° C	mg/dm ²	10	ND	ND	ND

Simulant Used	Time	Temperature	Unit	Limit	Result		
					4		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	100° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	100° C	mg/dm ²	10	ND	ND	ND
Oil	2hours	100° C	mg/dm ²	10	ND	ND	ND

Remark:

ND = not detected, less than 3.0 mg/dm²

mg/dm² = milligram per square decimeter

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Overall Migration -silicone

Test Request: In accordance with French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-2:2022 overall migration in olive oil by total immersion method
EN1186-3:2022 overall migration in evaporable simulants by total immersion method

Simulant Used	Time	Temperature	Unit	Limit	Result		
					3		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	70° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	70° C	mg/dm ²	10	ND	ND	ND

Simulant Used	Time	Temperature	Unit	Limit	Result		
					4		
					1 st	2 nd	3 rd
Ethanol 50%	2hours	100° C	mg/dm ²	10	ND	ND	ND
Acetic Acid 3%	2hours	100° C	mg/dm ²	10	ND	ND	ND
Oil	2hours	100° C	mg/dm ²	10	ND	ND	ND

Remark:

ND = not detected, less than 3.0 mg/dm²

mg/dm² = milligram per square decimeter

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Volatile Organic Matter (VOM)

Test Request: In accordance with French Décret 2007-766 and its amendments , and French Arrêté du 25 Novembre 1992.

Test Method: With reference to French Arrêté du November 1992 Annex III.

Test Item(s)	Unit	Limit	MDL	Result
				3
Volatile Organic Matter (VOM)	%	0.5	0.10	0.32

Remark:

Test Condition: 200°C, 4 hours

% = percentage of weight by weight, w/w

MDL = method detection limit

Specific Migration of Bisphenol A

Test Request: In accordance with French Décret 2007-766 and its amendments, and French Arrêté du 25 November 1992 for silicone materials.

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

Simulant Used: Acetic Acid 3%

Test Condition: 70°C 2hours

Test Item	Unit	Limit	MDL	Result		
				3		
				1 st Test	2 nd Test	3 rd Test
2,2-bis(4-hydroxyphenyl) Propane (Bisphenol A)	mg/kg	0.05	0.01	ND	ND	ND

Simulant Used: Acetic Acid 3%

Test Condition: 100°C 2hours

Test Item	Unit	Limit	MDL	Result		
				4		
				1 st Test	2 nd Test	3 rd Test
2,2-bis(4-hydroxyphenyl) Propane (Bisphenol A)	mg/kg	0.05	0.01	ND	ND	ND

Remark:

- (1) mg/kg = milligram per kilogram
- (2) ND = not detected, less than MDL
- (3) MDL = method detection limit
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Request: In accordance with Resolution CM/Res (2013)9 on metals and alloys used in food contact materials and articles.

Test Method: With reference to Resolution CM/Res(2013)9, analysis was performed by ICP-MS.

Simulant Used: 0.5% Citric acid

Test Condition: 70°C 2hours

Test Item(s)	Unit	MDL	Result			
			1			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Manganese (Mn)	mg/kg	0.2	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin (Sn) ^{*3}	mg/kg	5	ND	700	ND	100
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	0.002	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001
Magnesium (Mg)	mg/kg	0.1	ND	-	ND	-
Titanium (Ti)	mg/kg	0.1	ND	-	ND	-

Remark:

mg/kg =milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

SRL = Specific Release Limit

*1 Compliance is established on the result from the third migration test for repeated used articles.

*2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL

*3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Peroxide Value

Test Request: In accordance with French Décret 2007-766 and its amendments, and French Arrêté du 25 Novembre 1992 for silicone materials.

Test Method: With reference to European pharmacopoeia, 9.0 part 2.5.5. Peroxide Value method A.

Test Item(s)	Unit	Limit	Result	
			3	4
Peroxide Value	NO UNIT	Absent	Absent	Absent

Specific migration of Organotin (as tin)

Test Request: In accordance with French Décret 2007-766 and its amendments, and French Arrêté du 25 Novembre 1992 for silicone materials.

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

Simulant Used: Acetic Acid 3%

Test Condition: 70°C 2hours

Test Item(s)	Unit	Limit	MDL	Result		
				3		
				1 st	2 nd	3 rd
Specific migration of Organotin (as tin)	mg/kg	0.1	0.01	ND	ND	ND

Simulant Used: Acetic Acid 3%

Test Condition: 100°C 2hours

Test Item(s)	Unit	Limit	MDL	Result		
				4		
				1 st	2 nd	3 rd
Specific migration of Organotin (as tin)	mg/kg	0.1	0.01	ND	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

TO BE CONTINUED

TEST RESULT

Specific Migration of Primary Aromatic Amines

Test Request: To determine the Specific Migration of Primary Aromatic Amine Metal in accordance with Commission Regulation (EU) No 10/2011 and its amendments, and DGCCRF Food contact suitability of organic materials from synthetic materials - Fiche MCDA n° 3 (V03-09/09/2021).

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2hours at 70° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					5		
					1 st	2 nd	3 rd
m-Phenylenediamine	108-45-2	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	Not Detectable	0.002	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	Not Detectable	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	Not Detectable	0.002	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Dianisidine	119-90-4	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Tolidine	119-93-7	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Methylene-bis-2-chloroaniline	101-14-4	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Diaminodiphenylmethan	101-77-9	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-diamino-3,3-dimethyldiphenylmethane	838-88-0	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4'-Oxydianilin	101-80-4	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Thiodianilin	139-65-1	mg/kg	Not Detectable	0.002	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	Not Detectable	0.002	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	Not Detectable	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	Not Detectable	0.002	ND	ND	ND
4-chloro-2-methylaniline	95-69-2	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4-diaminotoluene	95-80-7	mg/kg	Not Detectable	0.002	ND	ND	ND
2-methyl-5-nitroaniline	99-55-8	mg/kg	Not Detectable	0.002	ND	ND	ND
Benzidin	92-87-5	mg/kg	Not Detectable	0.002	ND	ND	ND

TO BE CONTINUED

TEST RESULT

o-Aminoazotoluene	97-56-3	mg/kg	Not Detectable	0.002	ND	ND	ND
o-anisidine	90-04-0	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Toluidin	95-53-4	mg/kg	Not Detectable	0.002	ND	ND	ND
p-Phenylenediamine	106-50-3	mg/kg	-	0.002	ND	ND	ND
2,4-Dimethylaniline	95-68-1	mg/kg	-	0.002	ND	ND	ND
2,6-Xylidine	87-62-7	mg/kg	-	0.002	ND	ND	ND
Aniline	62-53-3	mg/kg	-	0.002	ND	ND	ND
2,2'-methylenedianiline	6582-52-1	mg/kg	-	0.002	ND	ND	ND
2,4'-methylenedianiline	1208-52-2	mg/kg	-	0.002	ND	ND	ND
Total of other primary aromatic amines	-	mg/kg	0.01	-	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Simulant Used: Acetic Acid 3%
Test Condition: 2hours at 100° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					6		
					1 st	2 nd	3 rd
m-Phenylenediamine	108-45-2	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	Not Detectable	0.002	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	Not Detectable	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	Not Detectable	0.002	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Dianisidine	119-90-4	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Tolidine	119-93-7	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Methylene-bis-2-chloroaniline	101-14-4	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Diaminodiphenylmethan	101-77-9	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-diamino-3,3-dimethyldiphenylmethane	838-88-0	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4'-Oxydianilin	101-80-4	mg/kg	Not Detectable	0.002	ND	ND	ND
4,4-Thiodianilin	139-65-1	mg/kg	Not Detectable	0.002	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	Not Detectable	0.002	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	Not Detectable	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	Not Detectable	0.002	ND	ND	ND
4-chloro-2-methylaniline	95-69-2	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	Not Detectable	0.002	ND	ND	ND
2,4-diaminotoluene	95-80-7	mg/kg	Not Detectable	0.002	ND	ND	ND
2-methyl-5-nitroaniline	99-55-8	mg/kg	Not Detectable	0.002	ND	ND	ND
Benzidin	92-87-5	mg/kg	Not Detectable	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	Not Detectable	0.002	ND	ND	ND
o-anisidine	90-04-0	mg/kg	Not Detectable	0.002	ND	ND	ND

TO BE CONTINUED

TEST RESULT

o-Toluidin	95-53-4	mg/kg	Not Detectable	0.002	ND	ND	ND
p-Phenylenediamine	106-50-3	mg/kg	-	0.002	ND	ND	ND
2,4-Dimethylaniline	95-68-1	mg/kg	-	0.002	ND	ND	ND
2,6-Xylidine	87-62-7	mg/kg	-	0.002	ND	ND	ND
Aniline	62-53-3	mg/kg	-	0.002	ND	ND	ND
2,2'-methylenedianiline	6582-52-1	mg/kg	-	0.002	ND	ND	ND
2,4'-methylenedianiline	1208-52-2	mg/kg	-	0.002	ND	ND	ND
Total of other primary aromatic amines	-	mg/kg	0.01	-	ND	ND	ND

Remark:

Total of other primary aromatic amines are p-Phenylenediamine (CAS No.:106-50-3), 2,4-dimethylaniline(CAS No.:95-68-1), 2,6-dimethylaniline(CAS No.:87-62-7), aniline (CAS No.:62-53-3), 2,2'-methylenedianiline(CAS No.:6582-52-1), 2,4'-methylenedianiline(CAS No.:1208-52-2).

mg/kg = milligram per kilogram

ND = not detected, less than MDL

MDL = method detection limit

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Migration of Heavy Metal

Test Request: To determine the Specific Migration of Heavy Metal in accordance with Commission Regulation (EU) No 10/2011 and its amendments, and DGCCRF Food contact suitability of organic materials from synthetic materials - Fiche MCDA n° 3 (V03-09/09/2021).

Test Method: With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2hours at 70° C

Test Item(s)	Unit	Limit	MDL	Result		
				5		
				1 st	2 nd	3 rd
Barium (Ba)	mg/kg	1	0.25	ND	ND	ND
Cobalt (Co)	mg/kg	0.05	0.01	ND	ND	ND
Copper (Cu)	mg/kg	5	0.25	ND	ND	ND
Iron (Fe)	mg/kg	48	0.25	ND	ND	ND
Lithium (Li)	mg/kg	0.6	0.5	ND	ND	ND
Manganese (Mn)	mg/kg	0.6	0.05	ND	ND	ND
Zinc (Zn)	mg/kg	5	0.5	ND	ND	ND
Aluminium (Al)	mg/kg	1	0.1	ND	ND	ND
Nickel (Ni)	mg/kg	0.02	0.01	ND	ND	ND
Antimony (Sb)	mg/kg	0.04	0.01	ND	ND	ND
Arsenic (As)	mg/kg	ND	0.01	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	0.002	ND	ND	ND
Chromium (Cr)	mg/kg	ND	0.01	ND	ND	ND
Europium (Eu)	mg/kg	-	0.01	ND	ND	ND
Gadolinium (Gd)	mg/kg	-	0.01	ND	ND	ND
Lanthanum (La)	mg/kg	-	0.01	ND	ND	ND
Terbium (Tb)	mg/kg	-	0.01	ND	ND	ND
Sum of lanthanide substances	mg/kg	0.05	-	ND	ND	ND
Lead (Pb)	mg/kg	ND	0.01	ND	ND	ND
Mercury (Hg)	mg/kg	ND	0.01	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Simulant Used: Acetic Acid 3%

Test Condition: 2hours at 100° C

Test Item(s)	Unit	Limit	MDL	Result		
				6		
				1 st	2 nd	3 rd
Barium (Ba)	mg/kg	1	0.25	ND	ND	ND
Cobalt (Co)	mg/kg	0.05	0.01	ND	ND	ND
Copper (Cu)	mg/kg	5	0.25	ND	ND	ND
Iron (Fe)	mg/kg	48	0.25	ND	ND	ND
Lithium (Li)	mg/kg	0.6	0.5	ND	ND	ND
Manganese (Mn)	mg/kg	0.6	0.05	ND	ND	ND
Zinc (Zn)	mg/kg	5	0.5	ND	ND	ND
Aluminium (Al)	mg/kg	1	0.1	ND	ND	ND
Nickel (Ni)	mg/kg	0.02	0.01	ND	ND	ND
Antimony (Sb)	mg/kg	0.04	0.01	ND	ND	ND
Arsenic (As)	mg/kg	ND	0.01	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	0.002	ND	ND	ND
Chromium (Cr)	mg/kg	ND	0.01	ND	ND	ND
Europium (Eu)	mg/kg	-	0.01	ND	ND	ND
Gadolinium (Gd)	mg/kg	-	0.01	ND	ND	ND
Lanthanum (La)	mg/kg	-	0.01	ND	ND	ND
Terbium (Tb)	mg/kg	-	0.01	ND	ND	ND
Sum of lanthanide substances	mg/kg	0.05	-	ND	ND	ND
Lead (Pb)	mg/kg	ND	0.01	ND	ND	ND
Mercury (Hg)	mg/kg	ND	0.01	ND	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not detected, less than MDL

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Extractable Formaldehyde

Test Request: With reference to DGCCRF French Decree No. 2007-766 and its amendments and Wood in contact with foodstuffs - NI 2012-93 of August 16, 2012

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant used: 3% Acetic Acid (W/V) Aqueous Solution

Test condition: 100°C 2hours

Test Items	Max. Permissible Limit	Unit	MDL	Result		
				8		
				1 st Test	2 nd Test	3 rd Test
Formaldehyde	15	mg/kg	1	ND	ND	ND

Remark:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client

TO BE CONTINUED

TEST RESULT

BS EN 12875-1:2005 Mechanical dishwashing resistance of utensils-Part 1: Reference test method for domestic articles

1) Number of tested sample: 2 Pieces(sample A without bamboo lid, sample B, sample C)

2) Number of controlled sample: /

3) Test Procedure

Clause	Test item	Test methods
8.1	Preparation of test dish washer	When testing metal articles, after each regeneration of the ion exchanger with sodium chloride, run one test cycle(see 8.3) with no test specimens
8.2	Loading the test dishwasher	The test dishwasher shall be fully loaded, using dummy articles to fill excess capacity if necessary. Each specimen shall be placed in the appropriate basket making sure that the specimens will not come into contact with each other during testing. All surfaces shall be equally exposed to the water spray, and the specimens shall be positioned in a way that avoids the formation of water pools. It is permissible to simultaneously wash several different types of domestic articles of ceramic, glass, metal or plastics. Note The risk of interaction between different materials should be considered. Where there is such a risk, such specimens should not be tested together. If it is necessary to withdraw a test specimen during the test, it shall be replaced by a similar article.
8.3	Test cycle	The test cycle shall comprise the stages specified in EN 12875-1:2005
8.4	Parameter control	The parameters of the test cycle listed below shall be verified before starting the first test cycle and after every 10 th test cycles. as per client's request
8.5	Number of test cycles	Subject specimens to 10 test cycles , as per client's request

4) Test result:

(Refer to)BS EN 12875-2:2001 Mechanical dishwashing resistance of utensils-Part 2: Inspection of non-metallic articles (as per client's request)

After 10 cycle(s)

Product No	Color	Gloss	Clouding	Resistant deposits and iridescent layers	Other aspects
A	0	0	-	-	0
B	0	0	-	0	0
C	0	0	-	0	0

TO BE CONTINUED

TEST RESULT

Table 1 – Inspection criteria

Articles with or without decoration	Colour ⁽¹⁾	gloss	Clouding	Resistant deposits and iridescent layers ⁽²⁾	Other aspects
Ceramic tableware	+	+		+	+(3) (4) (5)
Glass, glass ceramic ware	+	+	+(6)	+	+ (4) (5)
Vitreous enameled tableware	+	+		+	+(3) (4) (5)
Plastic articles	+	+	+(6)	+	+(3)(7)
(+) = to be inspected (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. (3) e.g. crazing. (4) The adherence of decorations shall be tested by repeated wiping with a moist cloth under slight pressure. (5) Abrasion which is caused by friction during the dishwasher treatment shall be disregarded. (6) Transparent articles only (7) Swelling, deformation, cracking, or delamination					

Table 2 – Evaluation of inspection criteria

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

Remark:

Powder detergent: "Cascade" dishwasher detergent

TO BE CONTINUED

TEST RESULT

BS EN 15284:2007 Materials and articles in contact with food stuffs- Test method for the: resistance to microwave heating of ceramic, glass, glass-ceramic or plastics cookware

Number Of Tested Samples:	1 piece(without bamboo lid)
Sample Material:	Plastic
Microwave power output:	600W
Short period time (for 72000 J):	120s
Long period (for 468000 J):	780s
Test Procedure:	1. Apply a stain to the surface of the test specimen and wash clear. 2. Visually check that the surface is not damaged. Note any small faults prior to testing. 3. Except for articles made from glass or glass-ceramic, immerse the test specimen in water at a temperature of $(20 \pm 3) ^\circ\text{C}$ for one hour and then wipe the surface dry with a cloth. 4. Pour $(125 \pm 2, 5)$ ml of water into each water container and place at the back of the oven so as not to interfere with the turntable. 5. Place the test specimen at the center of the turntable for the short heating period test. If electrical arcing begins IMMEDIATELY SWITCH OFF THE OVEN. Terminate the test and state in the test report that at the onset of electrical arcing the test was terminated. 6. After the cycle is completed, open the oven door and, if applicable, using the surface temperature measuring apparatus, find and record the highest temperature of the handle. When additional data is required, follow this procedure to find the highest surface temperature. Ensure that this process takes no longer than 45 s. 7. Immediately following 6 set the oven for the long period and restart. 8. After completion, when additional data is required, record the highest surface temperature (in no more than 45 s). Remove the test specimen from the oven and allow it to cool on an insulated surface to prevent thermal shock. 9. Apply stain to the test specimen and wash clear. 10. Visually inspect the test specimen for damage according to the criteria in Table 1. 11. Repeat the test using the different article shapes in the set.
Test Requirement:	1. Record the highest temperature for each item tested in a set. 2. Record any damage that has occurred to individual items. 3. Record any arcing, temperature limits and damage. ● If arcing occurs (5), the article fails the test and is unsuitable for use in a microwave oven. ● The maximum surface temperature of handles after the short period

TO BE CONTINUED

TEST RESULT

	heating (6) shall not exceed the following limit values: ceramic, glass-ceramic or glass: 56 °C; plastics: 60 °C. 4. If any damage occurs (according to the criteria in 10), the article fails the test and is unsuitable for use in a microwave oven.
Test Result:	No any damage present after test No any arcing presented after test Visually Inspection Result: No Cracking, Scaling, Colour change Melting, Deformation, Charring were observed Suitability for re-use in a microwave oven
Test Conclusion	Pass

Remark:

Pass= No cracking listed in Table 1 were found.

Table 1 — Inspection criteria

Material	Cracking	Crazing	Scaling	Colour	Melting	Deformation	Suitability for re-use	Charring
Ceramic	+	+ ^a	+ ^b	+ ^c				
Glass, glass-ceramic	+		+ ^b	+ ^c				
Plastics	+			+ ^c	+ ^d	+	+ ^e	+
(+) = to be inspected ^a refers to the glaze ^b refers to on-glaze decoration ^c if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen ^d article shall not be too soft to handle ^e article shall be washable and stain resistant								

END OF THE REPORT