

TEST REPORT

<u>Applicant</u>	: Mid Ocean Brands B.V.
<u>Address</u>	: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
<u>Sample description</u>	: Football BBQ set
<u>Item no.</u>	: MO9223
<u>Manufacturer</u>	: 107961
<u>Sample received date</u>	: 03 - Dec - 2025
<u>Sample resubmission date</u>	: 13 - Jan -2026
<u>Turn around time</u>	: 11 - Dec - 2025 to 26 - Jan - 2026

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

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Pentachlorophenol (PCP) Content	Regulation (EU) 2019/1021	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Phthalates content	REACH Annex XVII, Entry 51 & 52	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Colour Fastness to Rubbing	ISO 105-X12:2016	Pass
Formaldehyde Release	REACH Annex XVII, Entry 77	Pass
Specific Release of Heavy Metals	European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024)	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 apply it in accordance with ILAC G8:09/2019-(binary statement for simple acceptance rule). 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) *****

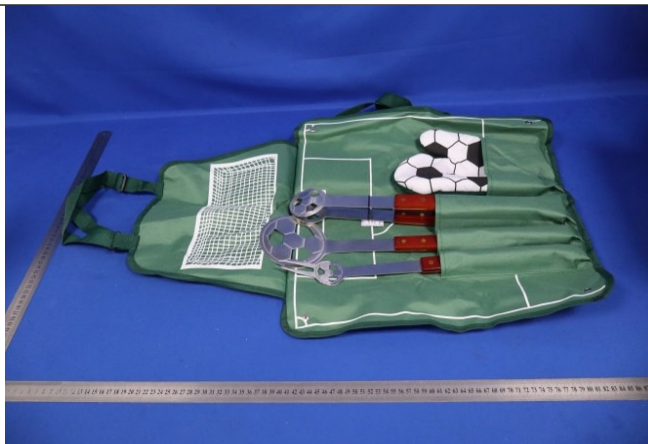
Signed for and on behalf of
Eurofins Product Testing Service (Hangzhou) Co., Ltd



Sara Liu
Quality Manager



SAMPLE PHOTO(S)



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EFHZ25121090-CG-01

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COMPONENT LIST

Component No.	Component	Sample No.
1	White coating on fabric (apron)	A
2	Brown red coating on wood	A
3	Black coating on metal (snap)	A
4	Black plastic buckle (apron)	A
5	Golden plated metal (handle)	A
6	Dark green fabric body/piping/hoop (gloves)	A
7	Green fabric body (apron)	A
8	Green fabric tape (apron)	A
9	Green fabric piping (apron)	A
10	White/black fabric body (gloves)	A
11	White non-woven fabric (apron lining)	A
12	White non-woven fabric lining (gloves)	A
13	White fiber filling (gloves)	A
14	White non-woven fabric (inside apron)	A
15	Natural color wood excluding coating (handle)	A
16	Silver metal snap	A
17	Silver stainless steel	A
18	Green coating with fabric	A

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

Test Item(s)	Unit	Limit	MDL	Result
				1+2+3
Cadmium (Cd)	mg/kg	100	5	ND

Test Item(s)	Unit	Limit	MDL	Result	Result
				4	18
Cadmium (Cd)	mg/kg	100	5	ND	ND

Remark:

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

TOBE CONTINUED

TEST RESULT

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol and its salts and esters content as specified in Regulation (EU) 2019/1021 and its amendment Commission Regulation (EU) 2021/277 of the European Parliament and of the Council on persistent organic pollutants (POPs) as regards Annex I Part A.

Test Method: With reference to § 64 LFGB BVL B 82.02-8:2001, analysis was performed by GC-MS

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					6+7+8	9+10+11	12+13
Pentachlorophenol (PCP)	87-86-5	mg/kg	5	0.05	ND	ND	ND

Remarks:

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

TOBECONTINUED

TEST RESULT

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol and its salts and esters content as specified in Regulation (EU) 2019/1021 and its amendment Commission Regulation (EU) 2021/277 of the European Parliament and of the Council on persistent organic pollutants (POPs) as regards Annex I Part A.

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

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					15
Pentachlorophenol (PCP)	87-86-5	mg/kg	5	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 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	6+7+8	9+10
Lead (Pb)	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result			
				11+12+13	14	15	16+17
Lead (Pb)	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				5	18
Lead (Pb)	mg/kg	500	10	ND	ND

Remark:

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

TOBE 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: IEC 62321-8:2017, solvent extraction and quantification by GC-MS.

TestItem(s)	CAS No.	Unit	Limit	MDL	Result
					1+2+3
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND
Sum (DBP + BBP + DEHP + DiBP)	-	%	0.1	-	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND

TestItem(s)	CAS No.	Unit	Limit	MDL	Result	Result
					4	18
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND
Benzylbutyl 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 (DBP + BBP + DEHP + DiBP)	-	%	0.1	-	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Diisononylphthalate (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:

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

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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		
					1+2+3	4	18
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:

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

TOBE 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, EN ISO 14362-3:2017, analysis was performed by GC-MS and confirmed with HPLC-DAD/LCMSMS

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					6+7+8	9+10
4-methyl-m-phenylenediamine/ 2,4-Toluyldiamine	95-80-7	mg/kg	30	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND
4,4'-methylenedi-o-toluidine/ 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND
Benzidine	92-87-5	mg/kg	30	5	ND	ND
o-Toluidine	95-53-4	mg/kg	30	5	ND	ND
5-Nitro-o-toluidine	99-55-8	mg/kg	30	5	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	30	5	ND	ND
4-methoxy-m-phenylenediamine/ 2,4-Diaminoanisoie	615-05-4	mg/kg	30	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND
4-Amino-azobenzene	60-09-3	mg/kg	30	5	ND	ND

Remarks:

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

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

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

TOBE CONTINUED

TEST RESULT

Colour Fastness to Rubbing

ISO 105-X12:2016

	(6)	(7)	(8)	(9)	(10)	Requirement:
Lengthwise-Dry	4-5	4-5	4-5	4-5	4-5	Grade 2-3
Lengthwise-Wet	4-5	4-5	4-5	4-5	3	Grade 2-3
Widthwise-Dry	4-5	4-5	4-5	4-5	4-5	Grade 2-3
Widthwise-Wet	4-5	4-5	4-5	4-5	3	Grade 2-3

	(11)	(12)	(13)	(14)	Requirement:
Lengthwise-Dry	4-5	4-5	4-5	4-5	Grade 2-3
Lengthwise-Wet	4-5	4-5	4-5	4-5	Grade 2-3
Widthwise-Dry	4-5	4-5	4-5	4-5	Grade 2-3
Widthwise-Wet	4-5	4-5	4-5	4-5	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

TOBE CONTINUED

TEST RESULT

Formaldehyde Release

Test Request: Formaldehyde release as specified in entry 77 of annex XVII of REACH Regulation (EC) No 1907/2006 and Amendment (EU)2023/1464

Test Method: EN 717-1:2004, emission of formaldehyde (Chamber method).
Chamber Volume: 0.225m³ Test Duration: 7 days; Temperature: 23°C; Humidity: 45%. Load Factor: 1 m²/m³

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					15
Formaldehyde	50-00-0	mg/m ³	0.062	0.040	ND

Remarks:

mg/m³ = milligram per cubic meter

MDL = method detection limit

ND = Not detected, less than MDL

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TEST RESULT

Specific Release of Heavy Metals

Test Request: To determine specific release of heavy metals for compliance with European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024).

Test Method: With reference to European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024) for sample preparation and JRC Guidelines on testing conditions for kitchenware articles in contact with foodstuffs for test condition selection, analysis was performed by ICP-MS.

Simulant Used: 0.5% Citric acid

Test Condition: 2h at 100° C

Test Item(s)	Unit	MDL	Result			
			17			
			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	0.05	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	0.06	7	ND	1
Cobalt (Co)	mg/kg	0.005	0.006	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	0.01	0.02	0.49/3.85 ^{*4}	ND	0.07/0.55 ^{*4}
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	0.11	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	0.001	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Zirconium (Zr)	mg/kg	0.1	ND	14	ND	2
Arsenic (As)	mg/kg	0.0005	0.0009	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	ND	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	0.0002	ND	0.007	ND	0.001
Magnesium (Mg)	mg/kg	0.1	0.1	-	ND	-
Titanium (Ti)	mg/kg	0.1	ND	-	ND	-

Remark:

mg/kg =milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

TOBE CONTINUED

TEST RESULT

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 Commission Regulation (EU) 2023/915

*4 SRL:0.07 mg/kg and 7xSRL:0.49 mg/kg particularly for materials and articles intended for contact with milk, milk products and other non-alcoholic drinks as well as any food especially intended for infants and toddlers; SRL:0.55 mg/kg and 7xSRL:3.85 mg/kg for the others.

Test condition & simulant were specified by client.

END OF THE REPORT