



TEST REPORT

Report No.: STSGZ2111013027E

Date: 1-Dec-2021

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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) and sample information was/were submitted and identified by client as:

Sample Name: Portable BBQ set

Model/Style/Item #: MO6358

Receiving Date: 1-Nov-2021, 10-Nov-2021, 22-Nov-2021, 29-Nov-2021

Test Period: From 1-Nov-2021 to 30-Nov-2021

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
4	Bisphenol A Content - As Client's Requirement	EPA 3540C,determined by LC-MS	PASS
5	Extractable Heavy metal - Regulation (EC) No 1935/2004, the Council of Europe Resolution CMRes(2013)9	EN 13130-1:2004&EN 11885:2009, determined by ICP-OES and ICP-MS	PASS
6	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Result:

1. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		1	12		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

2. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)				Limit (mg/kg)	RL (mg/kg)
		1	2+3+4	5+6+7	8+9+10		
1	Lead(Pb) CAS#7439-92-1	N.D.	14	N.D.	N.D.	500	10
Conclusion		PASS	PASS	PASS	PASS	-	-

Compound		Result(s)				Limit (mg/kg)	RL (mg/kg)
		11+13+14	12	15+16+17	18+19		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
Conclusion		PASS	PASS	PASS	PASS	-	-

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		20	21+22+23		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
Conclusion		PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram
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3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Result(s)		Limit (%)	RL (%)
			1	12		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

4. Bisphenol A Content - As Client's Requirement EPA 3540C, determined by LC-MS

Compound		Material		Client's Limit (mg/kg)	RL (mg/kg)
		1	12		
1	Bisphenol A	N.D.	N.D.	0.1	0.1
Conclusion		PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram
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(c) N.D.: Not detected (result is less than RL)

5. Extractable Heavy metal -Regulation (EC) No 1935/2004, the Council of Europe Resolution CMRes(2013)9 EN 13130-1: 2004&BS EN 11885:2009,determined by ICP-OES and ICP-MS

Test condition: 5g/L Citric acid, 100 °C , 2h, 3 times

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		20					
		1 st + 2 nd	3 rd	1 st + 2 nd	3 rd	1 st + 2 nd	3 rd
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	8.94	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	0.11	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001

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19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
Conclusion		PASS	PASS	-	-	-	-

Remark(s): (a) mg/kg: milligram per kilogram
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6. Dishwasher safe test BS EN 12875-1:2005

	Sample	Barbecue net
After 5 cycles	Color ¹⁾	0
	Gloss	0
	Clouding	0
	Resistant deposits and iridescent layers ²⁾	0
	Other aspects	0

Remark(s): 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).See photo bar for test photos

Note: 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.

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 safely 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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Material List:

Material #	Position / Sample Description
1	Black coating, shell
2	Silvery metal, shell
3	Silvery metal, big handle
4	Silvery metal, washer
5	Silvery metal, big rivet
6	Silvery metal, rivet
7	Silvery metal, rivet holder
8	Silvery metal plate, holder
9	Silvery metal, axle
10	Silvery metal, handle
11	Silvery metal, handle holder
12	Silvery soft plastic, handle
13	Silvery metal plate, lock holder
14	Silvery metal string, lock
15	Silvery metal plate, switch holder
16	Silvery metal, clips
17	Silvery metal plate, switch
18	Silvery metal, axle
19	Silvery metal, body
20	Silvery metal, net
21	Silvery metal, net holder
22	Silvery metal, shell holder
23	Silvery metal, holder rivet

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Photo(s):



Product Photo

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