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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: Glass bottle with neoprene pouch

Model/Style/Item #: MO6860

Receiving Date: 31-Oct-2022

Test Period: From 31-Oct-2022 to 4-Nov-2022

Add Information:

### **Test Summary:**

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Cadmium content - Item 23 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	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362- 3:2017, determined by GC/MS and HPLC	PASS



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#	Test Item(s)	Reference Standard/Method	Result
5	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	PASS
6	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
7	Specific migration of Heavy metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 13130-1: 2004, determined by ICP-OES	PASS
8	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	PASS
9	Bisphenol A (BPA) content - Verification for claim validity	In-house Method, determined by LC-MS	PASS
10	Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC	EN 1388-1:1995, determined by ICP-OES	PASS
11	Overall migration - Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
12	Volatile Compounds Content - Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	PASS
13	Peroxides value - Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia method	PASS
14	Organotin for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992	EN 13130-1:2004,determined by ICP- OES	PASS
15	Bisphenol A Contents - French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012	In-house Method, determined by LC-MS	PASS
16	Colour Fastness to Rubbing	BS EN ISO 105-X12:2016	PASS
17	Polycyclic-aromatic hydrocarbons (PAHs) content Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
18	Extractable Heavy metal - Regulation (EC) No	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	PASS
19	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
20	Microwave safe test	EN 15284:2007	PASS

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### Result:

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

	Compound		Material		Limit	RL
	Compound	1	2	3	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	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. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

	O a man a sum d	Result(s)		Result(s) Limit		Limit	RL
	Compound	1	2	(mg/kg)	(mg/kg)		
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)

#### 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

Result(s) Limit RL Compound (%) (%) 1 2 Dibutyl Phthalate 1 DBP N.D. N.D. 0.005 CAS# 84-74-2 Benzylbutyl Phthalate 2 **BBP** N.D. N.D. 0.005 CAS# 85-68-7 Bis-(2-ethylhexyl)Phthalate 3 **DEHP** N.D. 0.005 N.D. CAS# 117-81-7

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	Conclu	sion	PASS	PASS	-	-
9	Sum of	5, 6 & 7	N.D.	N.D.	0.1	(31)
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	0.1	
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.		0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL) (c)The data of #4 was retesting result.

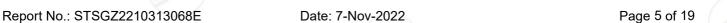
# 4. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013

ISO 14362-1:2017& ISO 14362-3:2017, determined by GC/MS and HPLC

	O d	Material	Limit	RL
	Compound	5	(mg/kg)	(mg/kg)
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene*	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5

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	Conclusion	PASS	-	-
22	4-aminoazobenzene** CAS#60-09-3	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	30	5

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Remark(s): (a) mg/kg: milligram per kilogram
(b) N.D.: Not detected (result is less than RL)
(c) RL: Report limit
\*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

\*\*: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.



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#### 5. Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245

EN 1186-1:2002 & EN 1186-3:2002

			Result(s)			
	Test specification		2			RL (mg/dm²)
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	(mg/dm²)	
1	10% Ethanol, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

#### **Overall Migration for Silicone Materials in Contact with Foodstuffs** EN 1186-1:2002 & EN 1186-3:2002

	Test specification	Material  1  3 <sup>rd</sup>	Limit (mg/dm²)	RL (mg/dm²)
1	10% Ethanol, 70 ℃, 2h	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	10	3
	Conclusion	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

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7. Specific migration of Heavy metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245

EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 70℃, 2h

			Result(s)			
Compound		1			Limit (mg/kg)	RL (mg/kg)
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01

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21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	(-)	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	Conclusion	-	-	PASS	-	-

			Result(s)			
	Compound	2			Limit (mg/kg)	RL (mg/kg)
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	0.7	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1

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	Conclusion	-	-	PASS	-	-
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
22	Sodium(Na)	N.D.	N.D.	0.1	-	0.1
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

### Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS 8.

Test Condition: 3%Acetic acid, 70℃, 2h

Compound				Result			
		Compound	1			Limit (mg/kg)	RL (mg/kg)
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
	1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
		Conclusion	-	-	PASS	-	-

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	$3^{\rm rd}$		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-		PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

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#### Bisphenol A (BPA) content In-house Method, determined by LC-MS

	Took Idam	Material		Material			
	Test Item	1	2	Limit (mg/kg)	(mg/kg)		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01		
	Conclusion	PASS	PASS	-	-		

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

#### 10. Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC EN 1388-1:1995, determined by ICP-OES

Test Condition: 4% Acetic acid, 22°C, 24h

Test specification		Result(s)	Limit (mg/L)	RL
		4		(mg/L)
1	Lead (Pb)	N.D.	4	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
	Conclusion	PASS	-	-

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

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## 11. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

Test specification		Material		
		1	Limit (mg/dm²)	RL (mg/dm²)
		3 <sup>rd</sup>	,	, ,
1	10% Ethanol, 70 ℃, 2h	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	10	3
	Conclusion	PASS	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

## 12. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200°C, 4h

Commonad		Material	Limit	RL
	Compound	1	(%)	(%)
1	Volatile Compounds	0.27	0.5	0.1
	Conclusion	PASS	-	-

Remark(s): (a) RL: Report limit

## 13. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

Compound		Material	Requirement	
	Compound	1	- Requirement	
1	Peroxide Value	Negative	Negative	
	Conclusion	PASS	-	

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## 14. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

Test condition:3%acetic acid ,70°C, 2h

0		Material	Limit	RL
	Compound	ompound 1	(mg/kg)	(mg/kg)
1	Organotin(as Sn)	N.D.	0.1	0.01
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

## 15. Bisphenol A Contents - French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012

In-house Method, determined by LC-MS

Test Item		Material	Client's	RL
		1	Limit (mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	Not Detected	0.01
	Conclusion	PASS	-	-

### 16. Colour Fastness to Rubbing - BS EN ISO 105-X12:2016

(Minimum requirement(Grade): Color staining dry≥4, wet≥4)

Sample	Result (Grade)			
	Dry	Wet		
Black fabric,cover	4-5	4		

Remark(s): Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

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Guangzhou Depuhua Test Services Co. Ltd.

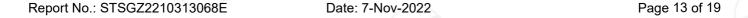
A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

e-mail: stsgz@stsapp.com

**PASS** 



## **REPORT**



#### 17. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013

AfPS-GS-2019-01:PAK, determined by GC-MS

			Material				
	Compound	category I <sup>*1</sup>			Limit (mg/kg)	RL (mg/kg)	
		1	1 2		, , ,	, , ,	
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	1	0.2	
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	1	0.2	
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	1	0.2	
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	1	0.2	
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	1	0.2	
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	1	0.2	
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	1	0.2	
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	1	0.2	
	Conclusion	PASS	PASS	PASS	-	-	

Remark:

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

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably

Category II: Toys, including activity toys, and childcare articles, 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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#### 18.

Extractable Heavy metal BS EN 13130-1: 2004&BS EN 11885:2009,determined by ICP-OES and ICP-MS

Test condition: 5a/L Citric acid. 70 °C . 2h. 3 times

Elements		Material 3		Limit (mg/kg)		RL (mg/kg)	
		1	Tin (Sn)	N.D.	N.D.	700	100
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	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 (AI)	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)	N.D.	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
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

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21	Thallium (TI)	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

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

## 19 Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

	Sample	6
	Color <sup>1)</sup>	0
	Gloss	0
After 10 cycles	Clouding	0
	Resistant deposits and iridescent layers <sup>2)</sup>	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 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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#### 20. Microwave safe test EN 15284:2007

Sample	Description	on: glass				
		Max surface Temperatur	Visual dama	Visual damage checking required for glass sample		
Sample	Arcing	e of sample after short		Short period of heating	/	Rating
		period heating(℃)	Cracking	Color	Scaling	13
4A	0	37.8	0	0	0	Pass
4B	0	37.5	0	0	0	Pass
4C	0	37.6	0	0	0	Pass

Sample	Description	on: glass					
		Max surface Temperatur	Visual dama	ge checking required for	glass sample		
Sample	Arcing	e of sample after short	long period of heating			Rating	
		period heating(°ℂ)	Cracking	Color	Scaling		
4A	0	37.8	0	0	0	Pass	
4B	0	37.5	0	0	0	Pass	
4C	0	37.6	0	0	0	Pass	

Remark(s): (a) 0:No visible change and Suitable for reuse

#### Requirement:

	The maximum surface temperature after short period heating shall not exceed the following limit value:	
Ceramic, glass-ceramic or glass	<b>56℃</b>	
Plastics:	<b>60°</b> C	

Observation Parameter(s)	Visual damage checking required for the sample		
Cracking	No visible change		
Color <sup>a</sup>	No visible change		
Melting <sup>b</sup>	No visible change		
Deformation	No visible change		
Suitability for re-use <sup>c</sup>	Suitable for reuse		
Charring	No visible change		

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Remark(s): (1) a = if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen (2) b = article shall not be too soft to handle (3) c = article shall be washable and stain resistant

#### **Material List:**

Material #	Position / Sample Description	Material
1	Translucent silicone,sealring	silicone
2	Black plastic,lid	PP
3	Silvery metal,lid	stainless steel
4	Transparent glass,bottle	Glass
5	Black fabric,cover	-
6	Article	

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### Photo(s):



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